

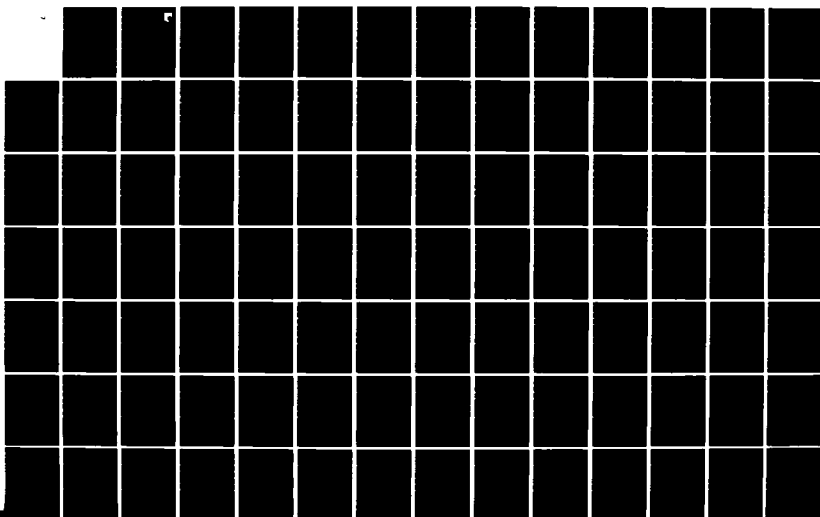
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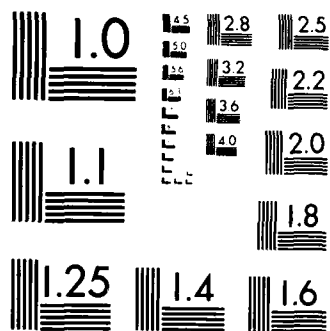
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VOLUME IV

AD-A142 447



**INTEGRATED COMPUTER-AIDED MANUFACTURING (ICAM)
ARCHITECTURE PART III
VOLUME IV - COMPOSITE INFORMATION MODEL OF
"DESIGN PRODUCT" (DES1)**

SofTech, Inc.
460 Totten Pond Road
Waltham, MA 02154

September 1983

Final Report for September 1980 - October 1982

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

**MATERIALS LABORATORY
AIR FORCE WRIGHT AERONAUTICAL LABORATORIES
AIR FORCE SYSTEMS COMMAND
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433**

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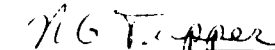
This technical report has been reviewed and is approved for publication.



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May 2, 1984
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FOR THE COMMANDER



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2 May 84
Approval Date

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Model of Manufacturing	IDEF	MFG01 Glossary															
Integrated Computer-Aided Manufacturing	MFG0																
Subsystem Integration	DESIGN0																
Technology Transfer	DESIGN1																
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) <p>The Integrated Computer Aided Manufacturing (ICAM) Architecture Part III was initiated to maintain and update the existing manufacturing architecture as well as develop training courses to assist in the transition of IDEF applications, concepts and procedures to other Air Force programs. This volume, Volume IV, presents the composite view depicting the design process as it exists today in the form of an "AS IS" Information Model of Design.</p>																	

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This report is presented in the following eight volumes:

1. Volume I - Architecture Part III Accomplishments
2. Volume II - Procedures
3. Volume III - Composite Function Model of "Design Product" (DES0)
4. Volume IV - Composite Information Model of "Design Product" (DES1)
5. Volume V - Composite Function Model of "Manufacture Product" (MFG0)
6. Volume VI - Composite Information Model of "Manufacture Product" (MFG1)
7. Volume VII - MFG01 Glossary
8. Volume VIII - Technology Transfer

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FOREWORD

This technical report provides the results of the Information Modeling Task associated with the "Design Product" Model. This work was performed under Air Force Contract #F33615-80-C-5109, "ICAM ARCHITECTURE, PART III," covering the period of September 1980 through October 1982. The contract was sponsored by the Computer Integrated Manufacturing Branch, Materials Laboratory, Air Force Wright Aeronautical Laboratories, Air Force Systems Command, Wright Patterson Air Force Base, Ohio, 45433. The Air Force Technical Manager for ICAM ARCHITECTURE PART III was Capt Steve R. LeClair for the basic contract and Capt Richard R. Preston for the Option.

Bette Davis was the SofTech Program Manager. The other contributors to this document were;

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Section 1 SCOPE

1.1 Identification

This volume documents that part of the ICAM Architecture of Design and Manufacturing designated as DESI. DESI depicts the functional "AS IS" architecture of the diverse information presently in use within aerospace design.

This part of the architecture has been developed using IDEF (ICAM Definition Language) information modeling. The model presented herein is a composite Model of the information within "Design (Aerospace) Product". This composite view architecture represents those functions most typical of the majority of aerospace manufactures in the United States and is not intended to represent any specific company.

This volume documents work performed under ICAM Project Priority 1104 - ICAM Architecture of Manufacturing Part III.

1.2 Background

The Integrated Computer Aided Manufacturing (ICAM) program has as its objective the improvement of productivity in the aerospace manufacturing sectors of American industry. It is directed toward improving productivity through the systematic application of computer technology in the design and manufacturing environment. This approach is not only ambitious, but is also realistic in that it stresses the development of computer aided design and manufacturing capabilities. The integration of these computer aids into the design and manufacturing environment and among themselves will ultimately signal the success of the ICAM program.

A key to the achievement of this goal is the development of the ICAM Definition (IDEF) Methods and the ICAM composite models of design and manufacturing. The ICAM Definition Methods are a family of techniques through which -- analysts and laymen explore and discuss the nature of design and manufacturing systems. These techniques, developed for the ICAM program, provide a means of studying, recording, and communicating the inherent requirements and realities of the aerospace manufacturing environment. They are equally effective and valuable in many other manufacturing and non-manufacturing environments.

There are three ICAM Definition Methods: IDEF₀ - Function Modeling; IDEF₁ - Information Modeling; and IDEF₂ - Dynamics Modeling. A manufacturing system is described and studied through the application of all three techniques.

The ICAM composite models of manufacturing, or architectures, record a "consensus view" of what manufacturing is and how it operates. Composite architectures are presented in two forms: the "AS IS" form - representing the way in which manufacturing is currently accomplished; and the "TO BE" form - representing the way in which manufacturing will be accomplished with computer aids in place.

As prime contractor, SofTech subcontracted to DACOM the development of the "AS IS" Information model of design. This model is presented in its current state of development. It is expected that refinements will continually be made to the model as a result of its use. The vast amount of information which it contains makes it impossible to comprehend by cursory examination. A tremendous effort has gone into the preparation of the model which is the end result of this project. This report summarizes that effort and presents the critical features of the resulting model. Many stages of critique, validation, and checking have been invested to make sure that the published model and glossary are as complete, readable, consistent and correct as possible.

Architecture Process

The necessary first step in increasing design productivity is to understand current design practice precisely and to record this understanding concisely. This development of understanding has two main phases:

- Study specific company design
- Evolve a composite understanding

Factory View

Understanding of the current manufacturing design process must be based on the detailed factual information which describes this process in those companies which successfully produce aerospace products. This has been called "Factory View" information. The Factory View of manufacturing design is different for each company, for each division of each plant within a company, and even somewhat different for each organization and each individual within each plant.

Composite View

One objective of ICAM is to develop improvements in the design process which will be broadly applicable across the whole aerospace industry. In order to do this, it is necessary to have some understanding of "general of generic design practice." Such an understanding emphasizes the essential information necessary to all design processes, while de-emphasizing the differences of organization and terminology among the various factory views.

The model representing this aggregate understanding is called the "Composite View" of design. The composite view model presented in this volume depicts design as it exists today in the form of an information model. The composite view of the existing information used in design which has been produced in this project emphasize the technical aspects of current practice for the production of a single, new major aerospace product, such as an airplane.

Architecture Validation

From the first week of the project, a constant process of review guides the development of the architecture. Each version of the architecture is distributed to the coalition members for comment. These versions receive a "Working" status meaning the architecture is undergoing change within the group responsible for its development. The comments cause changes ranging from complete restructuring of various levels of architecture to clarification of individual words used in detailing lower levels.

This process of revise, review, revise continues throughout the building of the model. When the coalition decides that the model, or portions of it, are ready for industry review, the status is changed to "Draft."

Every 6 months throughout the project, an Industry Review Meeting is held. The Industry Reviewers represent various manufacturing companies. They review the "Draft" version of the model to insure that it is representative of design as a whole. Portions of the model that receive a consensus of approval are marked "Recommended." This signifies that their content is recommended for Air Force acceptance. Portions that do not receive consensus remain at "Draft" status and receive further review and revision.

Development of this model has included phases 0, 1, 2 and 3 as described in Volume V AFWAL-TR-81-4023, "Information Modeling Manual (IDEF1)" published in June of 1981 as part of the ICAM Architecture Part II, Project Priority 1102. Phase 4 as defined in that volume has not been completed.

1.3 Functional Description of Document

This volume of this report, documents the Architecture of Manufacturing information model of Design (DES1) which when combined with volumes III (DES0), V (MFG0), VI (MFG1) of this report makeup the current ICAM Architecture of Manufacturing. Volume IV DES1 is an integrated composite IDEF1 model of information indigenous to Aerospace design and Manufacturing

This volume is intended as a guide for the development of IDEF1 models by systems analysts and database designers involved in the integration of new design, manufacturing and computer system technology into the design and manufacturing environment.

Section 2
INFORMATION MODEL OF DESIGN
DES1

2.1 NODE Index (DES1)

The Node Index serves as a "Table of Contents" for the DES1 diagrams and glossaries, allowing a quick overview of all the entity classes in the model.

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2.2 Alphabetized Entity Class Glossary

The alphabetized glossary:

1. Facilitates the locating of the diagram and glossary for a desired entity class.
2. Provides a quick reference when the reader needs only the definition of an entity class.
3. Provides a cross-reference of corresponding names, labels, and synonyms which may be encountered in the model or in supporting documentation.

NAME	LABEL	NO.	DESCRIPTION	SYNONYM(S)
Advanced Material Notice	AMN	43	A document used as authorization to initiate and expedite procurement, replacement or cancellation of material, including parts and assemblies, after a requirement has been defined, but prior to the completion of the end product drawing(s) and/or EOs.	Advanced Material Order (AMO)
Advanced Material Notice Approval	AMN Appvl.	164	The indication that an authorized approval has acknowledged that the Advanced Material Notice conforms to the requirements of the task and procedure under which it was originated.	
Advanced Material Notice Item	AMN It.	141	The chronological order and sequence of the items which appear on and make up the order. Thus, the AMN Item number is the identification for that item on its order.	
Advanced Material Notice Item Callout	AMNI Call.	142	Occurrence of the reference of the Material Specification which details the requirements of the material for which the Notice is in effect.	
Advanced Material Notice Item Part	AMNI Part	144	The occurrence of a part number as the item reference on a particular notice. Thus, a specific relationship between the item and the part is established.	
Advanced Material Notice Source	AMN Srce.	157	The occurrence of the effort of creating an Advanced Material Notice in conjunction with the Engineering Assignment, through which an Employee originates the information according to the task and procedure at hand.	
NODE	TITLE	ENTITY CLASS GLOSSARY (ALPHABETIZED)		NUMBER

<u>NAME</u>	<u>LABEL</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SYNONYM(S)</u>
Approval Authority	Appvl. Auth.	88	The occurrence of the specific Employee being granted authority to approve specific pieces of information as authorized and described by the specific procedure (manual) which governs or pertains to such information.	
Authorized Material	Auth. Mat'l.	145	The occurrence of the material identification and the part number so that the exact material is referenced to the specific part.	
Change/Deviation Request	Chng/Dev. Req.	21	A document which identifies changes/deviations from a contractual requirement. It contains information which substantiates the reasons for the changes/deviations, proof that the item which incorporates the deviation will remain suitable for the intended operational use, and proof that any alternate processes or materials specified are equal to or better than the specified requirements.	
Configuration	Config.	14	The contractual description and requirements of the contractually deliverable end item, designed to satisfy a specific need or goal, which has a relative disposition and make-up of component parts at any given time.	Product Configuration, Vehicle
Configuration List	Config. List	84	A document that provides effectivity information for all limited parts, assemblies and traveling parts used to make a specific end item.	
<u>NODE:</u>	<u>TITLE:</u>	<u>ENTITY CLASS GLOSSARY (ALPHABETIZED)</u>		<u>NUMBER:</u>

<u>NAME</u>	<u>LABEL</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SYNONYM(S)</u>
Configuration List Approval	Config. List Appvl.	162	The indication that an authorized approval has acknowledged that the Configuration List conforms to the requirements of the task and procedure under which it was originated.	
Configuration List Item	Config. List It.	170	The chronological order and sequence of each of the items associated with the specific configuration list. Thus, the item number serves as the identification for a particular item within the list.	
Configuration List Source	Config. List Srce.	156	The occurrence of the effort of creating a Configuration List in conjunction with the Engineering Assignment, through which an Employee originates the information according to the task and procedure at hand.	
Contract	Contract	2	A document which constitutes an agreement between two parties whereby the contractor commits himself to render specific end items or products and includes changes, amendments, supplements, and exhibits.	
Contract Change	Con. Chng.	122	An official (released and accepted) change to the Contract Requirements, effecting the deliverable product (end item). Sometimes referred to as a Contract Amendment or Contract Addendum.	
<u>NODE</u>	<u>TITLE</u>	<u>ENTITY CLASS GLOSSARY (ALPHABETIZED)</u>		<u>NUMBER</u>

<u>NAME</u>	<u>LABEL</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SYNONYM(S)</u>
Cost Account	Cost Account	87	A sub-division of the WBS and is the level at which work package planning is accomplished and performance measurement analysis occurs and where cost/schedule comparisons are made for management control purposes.	
Customer Change Requirement	Cust. Chng. Req't.	120	That notification from the customer that a change in the contractual end item is desired. Subsequent to the identification of the requirement, a proposal estimating the change's impact is produced, or plans to incorporate the change (Contract Amendment) are prepared and readied for release.	
Detail Schedule	Det. Schedule	116	The second-level breakdown from the Master Schedule. It provides for the scheduling of the work to be performed at the subfunction-level. It is assigned to the Work Packages which are generated.	
Drawing	Drawing	1	A document disclosing pictorial and/or textual presentation of physical and functional engineering requirements for use in manufacturing and procurement, used in conjunction with parts list.	
Drawing Approval	Dwg. Appvl.	151	The indication that an authorized approval has acknowledged that the drawing conforms to the requirements of the task and procedure under which it was originated.	
<u>NOTE:</u>	<u>TITLE:</u>	<u>ENTITY CLASS GLOSSARY (ALPHABETIZED)</u>		<u>NUMBER:</u>

<u>NAME</u>	<u>LABEL</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SYNONYM(S)</u>
Drawing Revision	Dwg. Rev.	96	The Indication and Identification of the release level (i.e., the original release and successive modification releases) of the overall Drawing.	
Drawing Revision: RSW Effectivity	Dwg. Rev: RSW Effec.	132	Indication of the relationship between a specific drawing and a specific RSW (Recommended Stop Work) which has a bearing on the subsequent handling (i.e., update or modification, re-release, etc.) of the drawing.	
Drawing Sheet	Dwg. Sht.	34	A page/sheet of a drawing, carrying with it its sheet identification (sheet number) and relative number of sheets for the drawing (e.g., Sheet 2 of 10).	
Drawing Sheet Approval	Dwg. Sht. Appvl.	153	The Indication that an authorized approval has acknowledged that the Drawing Sheet conforms to the requirements of the task and procedure under which it was originated.	
Drawing Sheet: Engineering Order Item	Drawing Sheet: EOH	139	Indication of the relationship between an exact Drawing Sheet and the specific Engineering Order which has a direct effect on the particular sheet in reference.	
Drawing Sheet Revision	Dwg. Sht. Rev.	131	The Indication and Identification of the release level (i.e., the original release and successive modification releases) of the particular sheet of a drawing.	
<u>NODE</u>	<u>TITLE</u>	<u>ENTITY CLASS GLOSSARY (ALPHABETIZED)</u>		<u>NUMBER</u>

<u>NAME</u>	<u>LABEL</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SYNONYM(S)</u>
Drawing Source	Dwg. Srce.	95	The occurrence of the effort of creating a Drawing in conjunction with the Engineering Assignment, through which the Employee originates the information according to the task and procedure at hand.	
Effectivity	Eff'y	125	The designation of the range of Ship Sets (i.e., the beginning and ending "tail number") into which the applicable part will be incorporated or is approved for incorporation. Effectivity groups the deliverables into discrete quantities, which provide for the recognition of differences (contractually or managerially).	
Employee	Emp.	108	An individual who is on the company payroll, has unique company identification, receives the benefits of the company, and performs a specific function or service, usually assigned to an organization, unit, or other control agency.	
Engineering Assignment	Eng. Assgn't.	130	The occurrence of the Engineering Task, specifying certain activities in the creation of design data to be conducted, and the Employee, performing the activities according to instruction.	
Engineering Change Proposal	ECP	11	A document used for formally proposing engineering changes to the customer. The proposed change may originate with the seller or be requested by the customer. The proposal includes: a technical description of the change, commodities affected, financial data, and implementation schedules.	
<u>NODE</u>	<u>TITLE</u>	<u>ENTITY CLASS GLOSSARY (ALPHABETIZED)</u>		<u>NUMBER</u>

<u>NAME</u>	<u>LABEL</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SYNONYM(S)</u>
Engineering Order	E.O.	3	Document prepared to authorize revisions to released drawings, set forth configurations for new parts; authorize all drawing changes and provide control effectiveness records.	
Engineering Order Approval	E.O. Appvl.	166	The indication that an authorized approval has acknowledged that the Engineering Order conforms to the requirements of the task and procedure under which it was originated.	
Engineering Order Item	E.O. Item	138	The chronological order and sequence of the items which appear on and make up the Order. Thus, the E.O. Item is the identification for that item on its order.	
Engineering Order Source	E.O. Srce.	159	The occurrence of the effort of creating an Engineering Order in conjunction with the Engineering Assignment, through which an Employee originates the information in accordance with the task and procedure at hand.	
Engineering Release	Eng. Rel.	28	A document authorizing the release of listed Engineering documents (e.g., drawings, E.O.'s, AMN's) for the procurement or manufacturing action, and also for input to the applicable scheduling and tracking system.	Release Sheet
Engineering Release Approval	Eng. Rel. Appvl.	152	The indication that an authorized approval has acknowledged that the contents of the release package are in keeping with the tasks and procedures which govern their origination and that the appropriate task and procedure have been complied with in preparing for the release.	
<u>NODE</u>	<u>TITLE</u>	<u>ENTITY CLASS GLOSSARY (ALPHABETIZED)</u>		<u>NUMBER</u>

<u>NAME</u>	<u>LABEL</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SYNONYM(S)</u>
Engineering Release Item	ER Item	167	The chronological and sequence order of the items which appear on and constitute the Engineering Release. Thus, the ER Item number serves as the identification for that item as it appears on the release.	
Engineering Release Source	Eng. Rel. Sree.	171	The occurrence of the effort of creating an Engineering Release in conjunction with the Engineering Assignment, through which an Employee originates the information according to the task and procedure at hand.	
Engineering Task	Eng. Task	107	The incremental effort that constitutes an overall effort or activity which is aimed at completing specific milestones or objectives. Each effort which completes a portion of the deliverable product may be classified as an <u>Eng. Task</u> .	
Functional/Subcontract Schedule	Funct./Subcon. Schedule	115	The first-level major breakdown of the Master Schedule. It provides for the coordinated scheduling of major functional efforts, plus, for the release of major subcontract work.	
Manual/Procedure	Man/Proc	74	Prescribe the policies/procedures to be followed when preparing, issuing, monitoring, controlling and processing of design data.	
Master Schedule	Mst. Sched.	114	The overall schedule of an organization's overall resources - scheduling manpower, machinery, tools, etc., required to produce the end items. The Master Schedule, then, becomes the guide for producing the various product delivery schedules for the orders which are active or pending.	
<u>MODE</u>	<u>TITLE</u>	<u>ENTITY CLASS GLOSSARY (ALPHABETIZED)</u>		<u>NUMBER</u>

NAME	LABEL	NO.	DESCRIPTION	SYNONYM(S)
Material	Mat'l.	69	The information about the basic, or raw material which will be used to fabricate a part or component of the end item.	
Material Specification	Mat'l. Spec.	19	The description of the technical and physical characteristics, as well as the performance requirements, of a specific material to be used in the end item. The material specification also includes the testing, inspecting, handling, etc., requirements to which the material will be subjected.	
Milestone	Mile.	126	An Interim (i.e., between the Start of a Task and its Completion) event or activity which is indicative of the satisfactory progress being made on the Task, once the Milestone is satisfactorily met.	
Model/End Item	Model	98	The Identification of the final product, (deliverable end item) which is deliverable under the contract, describing an exact hardware configuration and associated software.	
Next Assembly Usage	Next Assy. Us.	40	The Identification of the physical structure (piece, unit, subassembly, or the like) to which the part will be attached (or into which it will be incorporated) to form that next assembly.	
Next Assembly Usage Approval	Next Assy. Use. Appvl.	161	The indication that an authorized approval has acknowledged that the Next Assembly Usage conforms to the requirements of the task and procedure under which it was originated.	
NOTE	TITLE ENTITY CLASS GLOSSARY (ALPHABETIZED)			NUMBER

NAME	LABEL	NO.	DESCRIPTION	SYNONYM(S)
Next Assembly Usage Item	Next Ass'y Us. It.	119	The chronological and sequenced identification of all, and each, of the Next Assemblies into which the associated Parts List Item (Part Number) will be incorporated.	
Next Assembly Usage Source	Next Ass'y Us. Srce.	155	The occurrence of the effort of creating the Next Assembly Usage in conjunction with the Engineering Assignment, through which an Employee originates the information according to the task and procedure at hand.	
Part	Part	13	One piece, or two or more pieces, joined together which are not normally subject to disassembly without destruction of the design use.	
Part Change	Pt. Chng.	105	One of several changes that appear on change documentation (e.g., on an ECP), that stipulates the change(s) to be made to a document and its associated documents and activities.	
Parts List	Parts List	37	A document containing all parts and data required to supplement the pictorial and dimensional information on the drawing. Included are materials, processes, finishes, quantities, usage, etc.	
Parts List Approval	P/L Appvl.	160	The indication that an authorized approval has acknowledged that the Parts List conforms to the requirements of the task and procedure under which it was originated.	
NOTE	TITLE	ENTITY CLASS GLOSSARY (ALPHABETIZED)		NUMBER

<u>NAME</u>	<u>LABEL</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SYNONYM(S)</u>
Parts List Item	P/L Item	118	The chronological breakdown and sequencing of the entries which will appear on the Parts List. These are the identities of the details which appear on the drawing to which the Parts List is associated.	
Parts List Source	P/L Srce.	154	The occurrence of the effect of creating a Parts List in conjunction with the Engineering Assignment, through which the employee creates the information according to the task and procedure at hand.	
Recommend Stop Work	RSW	82	A document issued to expedite information to Manufacturing and those departments which support the manufacturing process in advance of the release of a formal revision authorization. It authorizes Manufacturing to hold or restrict fabrication, assembly, installation and/or procurement of all affected articles for which drawings have been released.	Drawing Cancellation/ Replacement
RSW (Stop Work) Approval	RSW Appvl.	165	The indication that the authorized approval has acknowledged that the RSW conforms to the requirements of the task and procedure under which it was originated.	
RSW Effectivity Closure	RSW Eff. Clos.	133	The indication that the referenced RSW (Recommend Stop Work) has been lifted due to the elimination of the reason for the RSW via a drawing modification, etc.	
<u>NODE:</u>	<u>TITLE:</u>	<u>ENTITY CLASS GLOSSARY (ALPHABETIZED)</u>		<u>NUMBER</u>

<u>NAME</u>	<u>LABEL</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SYNONYM(S)</u>
RSW (Stop Work) Source	RSW Srce.	158	The occurrence of the effort of creating an RSW in conjunction with the Engineering Assignment, through which an Employee originates the information in accordance with the task and procedure at hand.	
Release Package	Rel. Pkg.	30	A compilation of documents which may consist of: the drawing and parts list, or the drawing with a direct drawing change EO and parts list, plus any applicable output sheets, automated or non-automated.	
Release Package Item	Rel. Pkg. It.	169	The chronological order and sequence of each of the items associated with the particular release package. Thus, the item number serves as the identification for the specific item within the package.	
Replacement Part	Repl. Part	143	The indication of an acceptable alternative for the subject part. Also, the Replacement Part is the indication of which parts may be satisfactorily substituted for by the subject part.	
Request for Proposal	RFP	123	A request to prepare a proposal/quotation for a specific end item, or change to a specific end item.	
Requirement	Req't.	117	A specified or stipulated end item deliverable, which will be further defined by the various specifications. Then, the Design Data will ultimately satisfy the requirements.	
<u>NODE</u>	<u>TITLE</u>	<u>ENTITY CLASS GLOSSARY (ALPHABETIZED)</u>		<u>NUMBER</u>

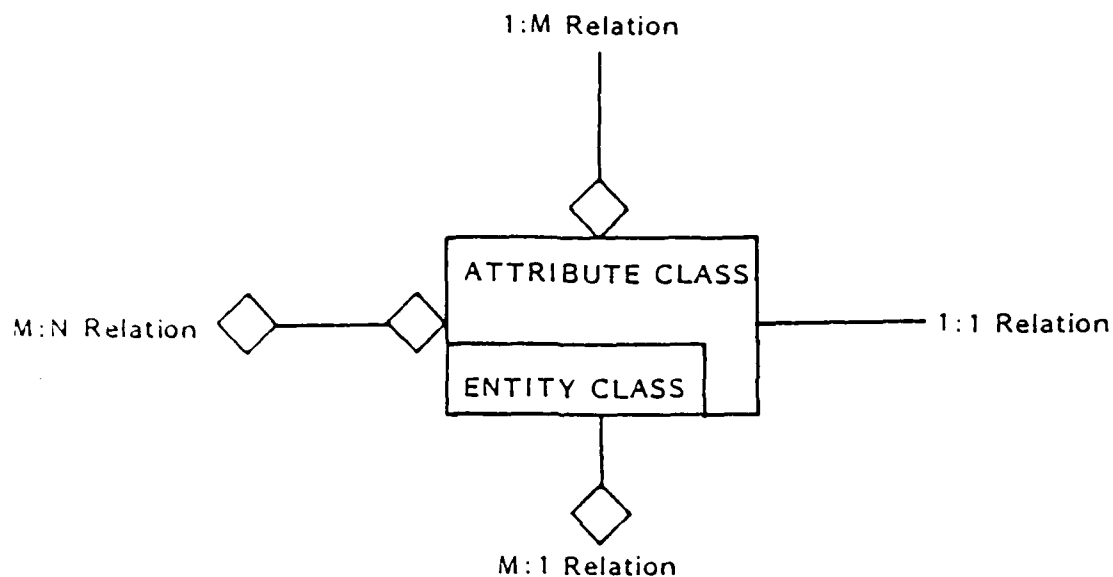
<u>NAME</u>		<u>LABEL</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SYNONYM(S)</u>
Requirement Specification		Req'ts. Spec.	121	The definitive description of the end items which are stipulated in the Contract. Often times the Req'ts. Spec. is a part of the Contract. It serves as the foundation for the development of the Design documentation - drawings, specifications, etc., etc. It defines the Requirements.	
Ship Set		Ship Set	124	The identification and description of all of the design details (parts and support equipment) which are to be a part of a specific end item.	
Ship Set: Part Effectivity		Ship Set: Part	146	The indication of a specific relationship between a parts list item and a ship set configuration.	
Specification		Spec.	35	A document which establishes and describes the technical and physical characteristics and performance requirements of specific equipment, materials, processes, products, or services including the packaging on a packing, marking or other essential characteristics or requirements, together with the prescribed methods of inspection and testing for determining that these requirements have been met.	
Specification Approval		Spec. Apvl.	150	The indication that an authorized approval has acknowledged that the specification conforms to the requirements of the task and procedure under which it was originated.	
<u>NODE</u>	<u>TITLE</u>	<u>ENTITY CLASS GLOSSARY (ALPHABETIZED)</u>			<u>NUMBER</u>

NAME	LABEL	NO.	DESCRIPTION	SYNONYM(S)
Specification Revision	Spec. Rev.	136	The indication and identification of the release level (i.e., the original release and successive modification releases) of the overall Specification.	
Specification Sheet Approval	Spec. Sht. Appvl.	163	The indication that an authorized approval has acknowledged that the Specification Sheet conforms to the requirements of the task and procedure under which it was originated.	
Specification Sheet	Spec. Sheet	134	A page of a specification, carrying with it its page identification (page number) and relative pages for the entire specification (e.g., Page 2 of 10).	
Specification Sheet Revision	Spec. Sheet Rev.	135	The identification and indication of the release level (i.e., the original release and successive modification releases) of the particular sheet of the Specification.	
Specification Source	Spec. Srce.	103	The occurrence of the effort of creating a Specification in conjunction with the Engineering Assignment, through which an Employee originates the information according to the task and procedure at hand.	
Summary Cost Account	Sum. Cst. Acct.	113	The first-level subdivision of the WBS. It serves as the summation level for the appropriate Work Package efforts. It provides an analysis of the associated WBS items.	
NODE	TITLE: ENTITY CLASS GLOSSARY (ALPHABETIZED)			NUMBER

NAME	LABEL	NO.	DESCRIPTION	SYNONYM(S)
Task Completion	Task Comp.	129	The information about the "actual" completion of a specific task.	
Task Instruction	Tsk. Inst.	168	The information about the unit of work which will effect the creation of a discrete portion of design data. The instruction details what is to be designed, how it is to be designed, and the guidelines (standards procedures, etc.) to be used as reference.	
Task Startup	Task St.	128	The recorded indication of the "actual" start of a task and is the repository of the "current status" of that task, in terms of the "percentage of completion," etc.	
Work Authority	Work Auth.	29	A document issued by the Program Management to each operating department and: defines the specific workscope to be performed, authorizes the expenditure of resources for the workscope defined and schedules states the authorized budget value, establishes related time and value limitations, and provides and/or references applicable schedules.	
Work Breakdown Structure	WBS	55	A product-oriented family tree composed of hardware, software, services, and after work tasks which result from efforts during the development and production of an end item, and which completely defines the project/program.	
NOTE:	TITLE: ENTITY CLASS GLOSSARY (ALPHABETIZED)			NUMBER

2.3 DESI Diagrams & Glossary

The following set of diagrams and glossaries represents the ICAM master "AS-IS" model for design as it pertains to information and information relationship.



FILED AT	AUTHOR PROJECT	DATE REV	WORKING DRAFT	RECOMMENDED PUBLICATION	DATE	CONTEXT
	NOTES 1 2 3 4 5 6 7 8 9 10					


```

classDiagram
    class ConfigurationList {
        84
    }
    class ApprovalAuthority {
        88
    }
    class ConfigurationListApproval {
        162
    }
    ConfigurationList --> ApprovalAuthority : is approved by
    ConfigurationList --> ConfigurationListApproval : is applied to
  
```

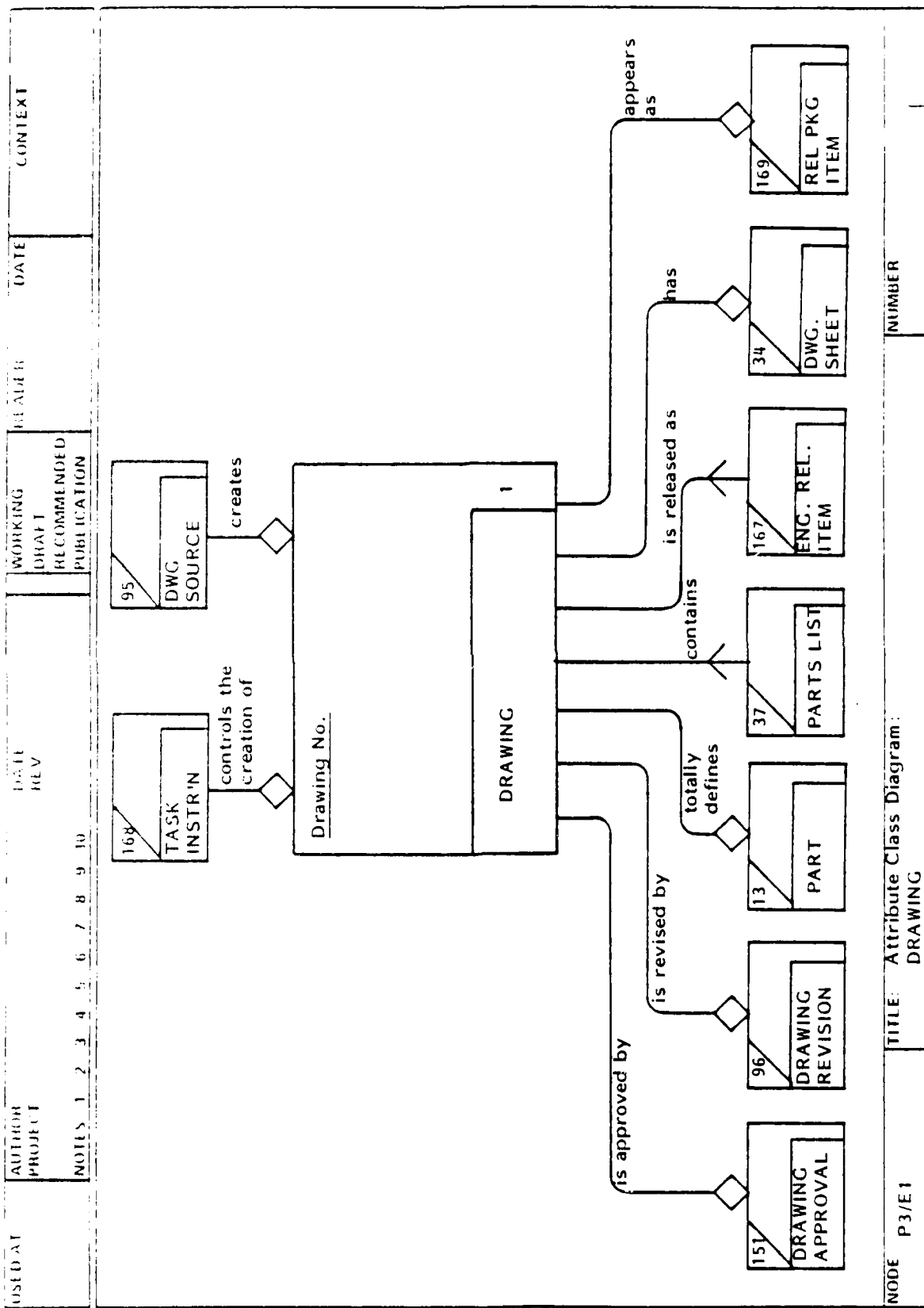
The diagram illustrates the relationships between three classes: Configuration List (84), Approval Authority (88), and Configuration List Approval (162). The Configuration List class is associated with the Approval Authority class via the relationship "is approved by". The Configuration List class is also associated with the Configuration List Approval class via the relationship "is applied to". The Configuration List Approval class contains the attribute "C/L No., Approval Code".

NODE P3/E162 TITLE: Attribute Class Diagram: CONFIGURATION LIST APPROVAL NUMBER

ENTITY CLASS DEFINITION: The indication that an authorized approval has acknowledged that the Configuration List conforms to the requirements of the task and procedure under which it was originated.			
KEY CLASSES: C/L No., Appvl. Code			
OWNED ATTRIBUTE CLASSES:			
NAME: Employee No.		NAME: Approval Date	
DEFINITION:		NAME: Status	
NAME: Description		NAME: Notes	
DEFINITION:			

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Config. List No. Approval No.	Configuration List Approval Authority	84 88	Configuration List Approval Authority	Is approved by is applied to

NODE: DESI/E162	TITLE: GLOSSARY: CONFIGURATION LIST APPROVAL	NUMBER:
------------------------	---	----------------



ENTITY CLASS DEFINITION: A document disclosing pictorial and/or textual presentation of physical and functional engineering requirements for use in manufacturing and procurement, used in conjunction with parts list.

KEY CLASSES: Drawing No.

OWNED ATTRIBUTE CLASSES:

NAME: Drawing No

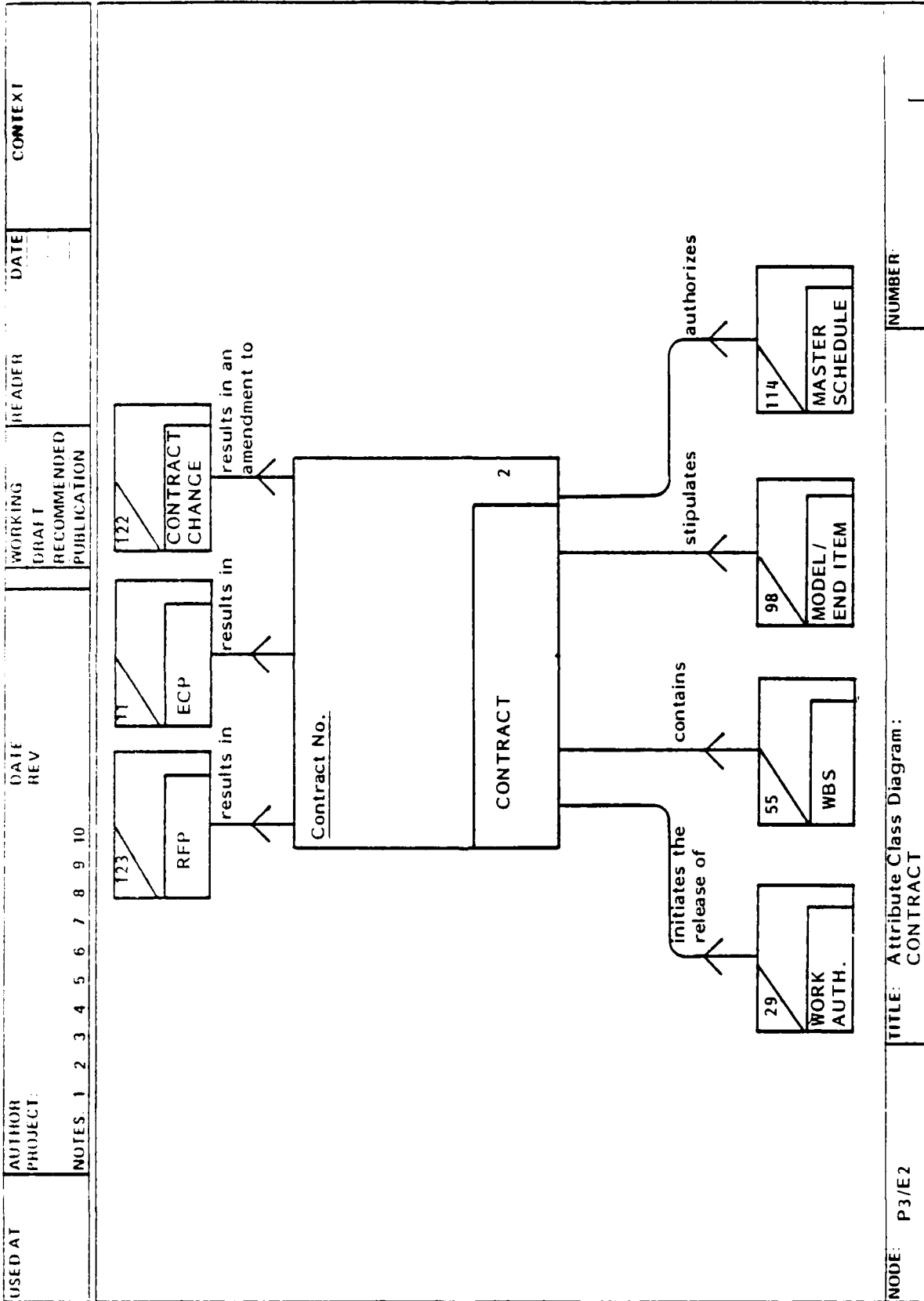
DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)		Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
				Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
Drawing Source ID Project No.		Drawing Source Engineering Task	95 107	Drawing Source Task Instruction	95 168	Creates Controls the Creation of
Task No.		Engineering Task	107	Task Instruction	168	Controls the Creation of
Task Last No.		Task Instruction	168	Task Instruction	168	Controls the Creation of
NODE: DESI/EI		TITLE: GLOSSARY: DRAWING		NUMBER:		

SI 252



NODE: P3/E2 TITLE: Attribute Class Diagram: CONTRACT NUMBER:

ENTITY CLASS DEFINITION: A document which constitutes an agreement between two parties whereby the contractor commits himself to render specific end items or products and includes charges, amendments, supplements, and exhibits.

KEY CLASSES: Contract No.

OWNED ATTRIBUTE CLASSES:

NAME: Contract No.

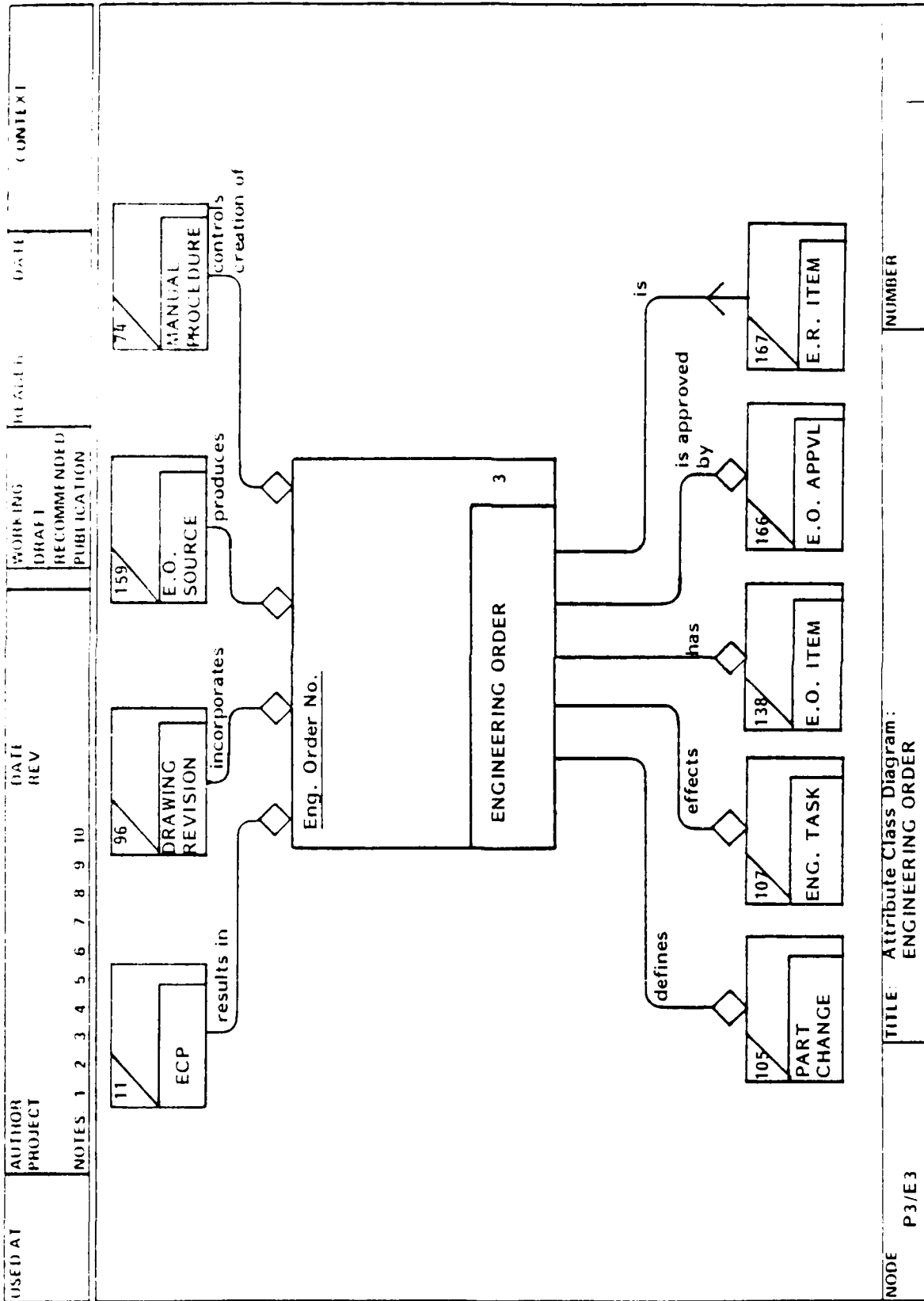
DEFINITION:

NAME:

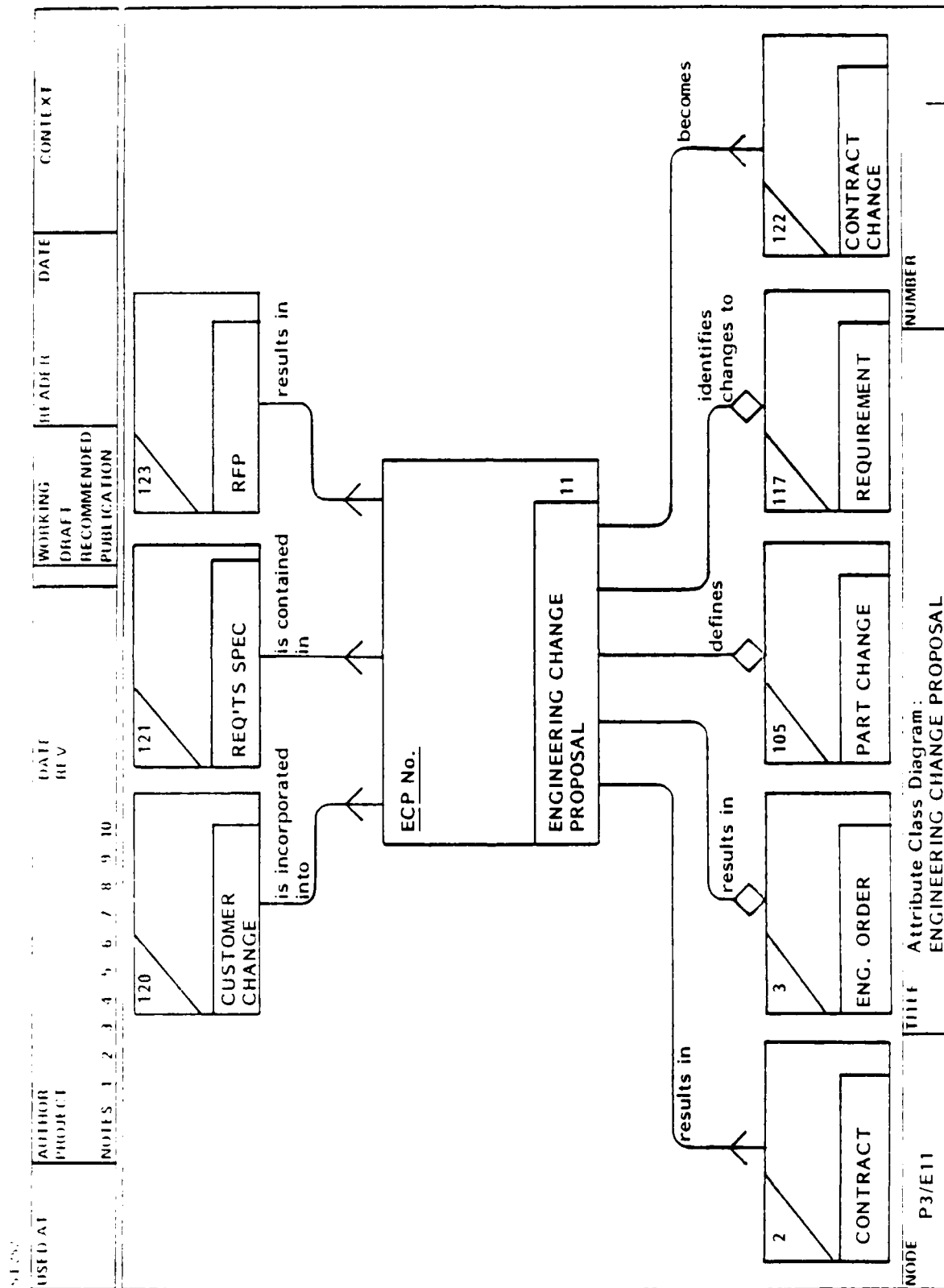
DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
MODE: DES/E2			TITLE: GLOSSARY: CONTRACT		NUMBER:

51252



<p>ENTITY CLASS DEFINITION: Document prepared to authorize revisions to released drawings; set forth configurations for new parts; authorize all drawing changes and provide control effectivity records.</p> <p>KEY CLASSES: <u>Eng. Order No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Eng. Order No. DEFINITION:</p> <p>NAME: DEFINITION:</p>				<p align="center">Attribute Migration Path</p> <table border="1"> <tr> <td>Inherited From: Entity Class Name</td> <td>Number</td> <td>Inherited Through: Relation Class Name</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name			
Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name										
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	<p>NUMBER:</p>									
<p>NODE: DESI/E3</p>		<p>TITLE: GLOSSARY: ENGINEERING ORDER</p>										



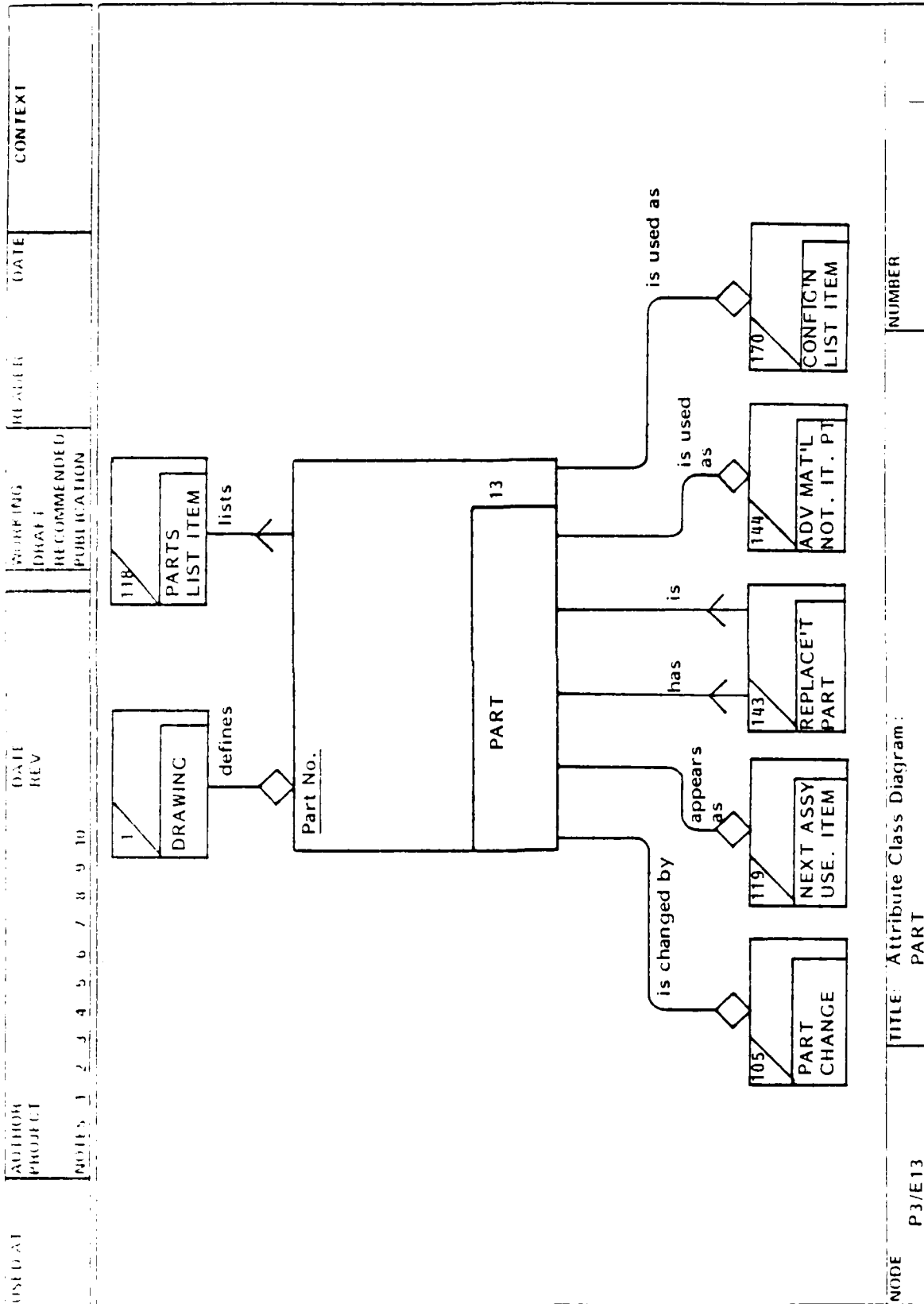
ENTITY CLASS DEFINITION:

OWNED ATTRIBUTE CLASSES:

DEFINITION:

DEFINITION:

NUMBER:



<p>ENTITY CLASS DEFINITION: One piece, or two or more pieces, joined together which are not normally subject to disassembly without destruction of the design use.</p> <p>KEY CLASSES: <u>Part No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Part No. DEFINITION:</p> <p>NAME: DEFINITION:</p>				<p align="center">Attribute Migration Path</p> <table border="1"> <tr> <th>Inherited Attribute Class(es)</th> <th>Attribute Class Owned By: Entity Class Name</th> <th>Number</th> <th>Inherited From: Entity Class Name</th> <th>Number</th> <th>Inherited Through: Relation Class Name:</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>			Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name:						
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name:													
<p>NODE: DFS1/E13</p>		<p>TITLE: GLOSSARY: PART</p>			<p>NUMBER:</p>													

AUTHOR'S PROJECT		DATE REV										WORKING DRAFT		RECOMMENDED PUBLICATION		DATE		CONTEXT							
NOTES		1	2	3	4	5	6	7	8	9	10														
												98		MODEL/END ITEM											
												Vehicle Serial No.		consists of											
												CONFIGURATION		14											
												is detailed in		84		CONFIG'N LIST									
												is identified as		117		REQUIRE'T									
												is composed of		124		SHIPSET									
NODE		P3/E14										TITLE		Attribute Class Diagram: CONFIGURATION										NUMBER	

<p>ENTITY CLASS DEFINITION: The contractual description and requirements of the contractually deliverable end item, designed to satisfy a specific need or goal, which has a relative disposition and make-up of component parts at any given time.</p> <p>KEY CLASSES: <u>Vehicle Serial No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Vehicle Serial No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
<p>MODE: DESI/E14</p>			<p>TITLE: GLOSSARY: CONFIGURATION</p>	
			<p>NUMBER:</p>	

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USED AT	AUTHOR PROJECT										DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT	
	NOTES	1	2	3	4	5	6	7	8	9						10
<pre> graph TD SPECIF35[35 SPECIF'N] -- "is used as" --> MATSPEC19[19 MATERIAL SPEC. Mat'l Spec. No.] MATERIAL69[69 MATERIAL] -- "is defined by" --> MATSPEC19 AUTHMAT145[145 AUTHORIZED MAT'L] -- "is defined by" --> MATSPEC19 MATSPEC19 -- "is used as" --> AMNICALL142[142 AMNI MAT'L CALLOUT] </pre>																
NODE: P3/E19											TITLE: Attribute Class Diagram: MATERIAL SPECIFICATION					NUMBER:

The description of the technical and physical characteristics, as well as the performance requirements, of a specific material to be used in the end item. The material specification also includes the testing, inspecting, handling, etc., requirements to which the material will be subjected.

KEY CLASSES: Mat'l. Spec. No.

OWNED ATTRIBUTE CLASSES:

NAME: Mat'l. Spec. No.

DEFINITION:

NAME:

DEFINITION:

ENTITY CLASS DEFINITION:

The description of the technical and physical characteristics, as well as the performance requirements, of a specific material to be used in the end item. The material specification also includes the testing, inspecting, handling, etc., requirements to which the material will be subjected.

KEY CLASSES:

Mat'l. Spec. No.

OWNED ATTRIBUTE CLASSES:

NAME:

Mat'l. Spec. No.

DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name

NODE:

DESI/EI9

TITLE:

GLOSSARY: MATERIAL SPECIFICATION

NUMBER:

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USED AT	AUTHOR PROJECT	DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
NOTES 1 2 3 4 5 6 7 8 9 10						


```

classDiagram
    class CRN[Change Request No.]
    class CDR[CHANGE/DEVIATION REQ. 21]
    class RFP[123 RFP]
    RFP --> CDR : becomes
    
```

NODE: P3/E21	TITLE: Attribute Class Diagram: CHANGE/DEVIATION REQUEST	NUMBER
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<p>ENTITY CLASS DEFINITION: A document which identifies changes/deviations from a contractual requirement. It contains information which substantiates the reasons for the changes/deviations, proof that the item which incorporates the deviation will remain suitable for the intended operational use, and proof that any alternate processes or materials specified are equal to or better than the specified requirements.</p> <p>KEY CLASSES: <u>Change Request No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Change Request No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
NODE: DES1/E21	TITLE: GLOSSARY: CHANGE/DEVATION REQUEST			NUMBER:

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USED AT AUTHOR: PROJECT: NOTES: 1 2 3 4 5 6 7 8 9 10	DATE: REV: WORKING DRAFT RECOMMENDED PUBLICATION	READER DATE	CONTEXT
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```

classDiagram
    class RELEASE_PACKAGE {
        30
    }
    class ENG_TASK {
        107
    }
    class ENG_REL_SOURCE {
        171
    }
    class ENGINEERING_RELEASE {
        28
        Eng Release No.
    }
    class ENG_REL_ITEM {
        167
    }
    class ENG_REL_APPROVAL {
        152
    }

    RELEASE_PACKAGE --> ENGINEERING_RELEASE : is released by
    ENG_TASK --> ENGINEERING_RELEASE : authorizes
    ENG_REL_SOURCE --> ENGINEERING_RELEASE : creates
    ENGINEERING_RELEASE --> ENG_REL_ITEM : has
    ENGINEERING_RELEASE --> ENG_REL_APPROVAL : is approved by
      
```

The diagram illustrates the Engineering Release process. It features five main classes: RELEASE_PACKAGE (30), ENG_TASK (107), ENG_REL_SOURCE (171), ENGINEERING_RELEASE (28), and two subclasses of ENGINEERING_RELEASE, ENG_REL_ITEM (167) and ENG_REL_APPROVAL (152). The relationships are as follows: RELEASE_PACKAGE 'is released by' ENGINEERING_RELEASE; ENG_TASK 'authorizes' ENGINEERING_RELEASE; ENG_REL_SOURCE 'creates' ENGINEERING_RELEASE; ENGINEERING_RELEASE 'has' ENG_REL_ITEM; and ENGINEERING_RELEASE 'is approved by' ENG_REL_APPROVAL. The ENGINEERING_RELEASE class has an attribute 'Eng Release No.'.

NODE: P3/E28	TITLE: Attribute Class Diagram: ENGINEERING RELEASE	NUMBER:
--------------	--	---------

<p>ENTITY CLASS DEFINITION: A document authorizing the release of listed Engineering documents (e.g., drawings, E.O.'s, AWW's) for the procurement or manufacturing action, and also for input to the applicable scheduling and tracking system.</p> <p>KEY CLASSES: <u>Eng. Release No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Eng Release No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
<p>NOTE: DESI/E28</p>			<p>TITLE: GLOSSARY: ENGINEERING RELEASE</p>	
			<p>NUMBER:</p>	

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USED AT	AUTHOR PROJECT:	DATE REV:	WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT
	NOTES: 1 2 3 4 5 6 7 8 9 10					
	<pre> graph LR CONTRACT[CONTRACT] -- "initiates release of" --> WORK_AUTHORITY[WORK AUTHORITY] WORK_AUTHORITY -- "provides authority for" --> SUMMARY_COST_ACC_T[SUMMARY COST ACC'T] </pre>					

NUDE	P3/E29	TITLE: Attribute Class Diagram: WORK AUTHORITY	NUMBER
------	--------	---	--------

ENTITY CLASS DEFINITION: A document issued by the Program Management to each operating department and: defines the specific workscope to be performed, authorizes the expenditure of resources for the workscope defined and scheduled, states the authorized budget value, establishes related time and value limitations, and provides and/or references applicable schedules.			
KEY CLASSES: <u>Work Authority No.</u>			
OWNED ATTRIBUTE CLASSES:			
NAME: Work Authority No.			
DEFINITION:			
NAME:			
DEFINITION:			

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		NUMBER:
			Inherited From: Entity Class Name	Number Inherited Through: Relation Class Name:	

MODE: DF51/E29	TITLE: GLOSSARY: WORK AUTHORITY	NUMBER:
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USED AT		AUTHOR PROJECT		DATE REV		WORKING DRAFT RECOMMENDED PUBLICATION		DATE		CONTEXT	
NOTES	1	2	3	4	5	6	7	8	9	10	
<pre> classDiagram class "Release Package No." { 30 } class "Eng. Task" { 107 } class "Rel. PKG Item" { 169 } class "Eng. Rel." { 28 } ReleasePackageNo --> EngTask : requires ReleasePackageNo --> RelPKGItem : has ReleasePackageNo --> EngRel : is released by </pre> <p>The diagram illustrates the relationships between four classes: Release Package No. (containing attribute 30), Eng. Task (containing attribute 107), Rel. PKG Item (containing attribute 169), and Eng. Rel. (containing attribute 28). The Release Package No. class is central, with a requires relationship to Eng. Task, a has relationship to Rel. PKG Item, and an is released by relationship to Eng. Rel.. The Eng. Task class is also associated with Release Package No. via a diamond symbol.</p>											
NODE		P3/E30		TITLE		Attribute Class Diagram: RELEASE PACKAGE					
						NUMBER					

A compilation of documents which may consist of: the drawing and parts list, or the drawing with a direct drawing change EO and parts list, plus any applicable output sheets, automated or non-automated.

KEY CLASSES: Release Package No.

OWNED ATTRIBUTE CLASSES:

NAME: Release Package No.

DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path			NUMBER:
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name	

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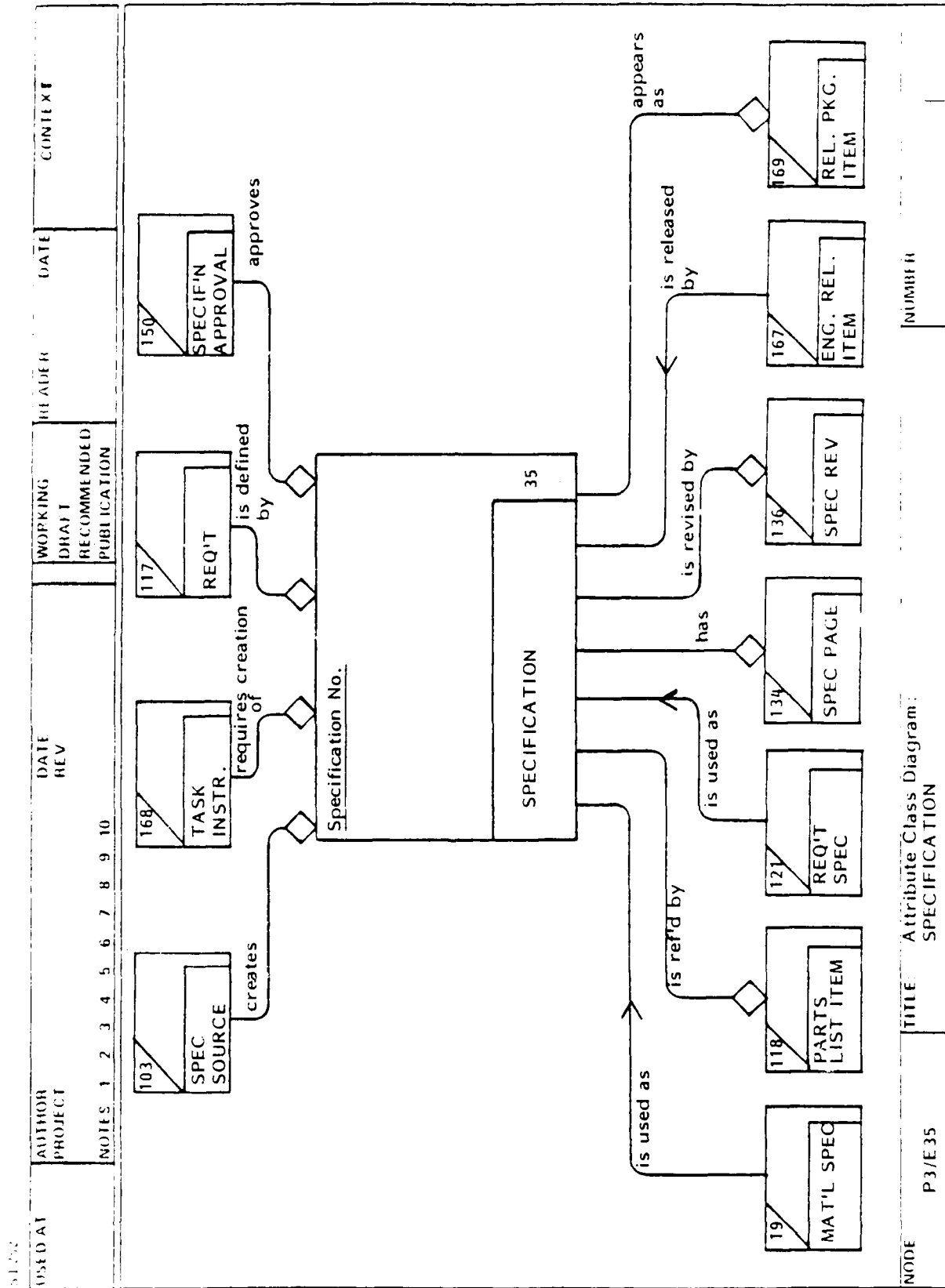
USED AT	AUTHOR PROJECT	DATE REV.	WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT
NOTES	1 2 3 4 5 6 7 8 9 10					


```

classDiagram
    class DRAWING {
        1
    }
    class DRAWING_SOURCE {
        95
    }
    class DRAWING_SHEET {
        Drawing No., Dwg Sheet No.
        34
    }
    class DWG_SHEET_APPROVAL {
        153
    }
    class DWG_SHEET_REVISION {
        131
    }
    DRAWING "1" --> "1" DRAWING_SHEET : has
    DRAWING_SOURCE "95" --> "1" DRAWING_SHEET : creates
    DRAWING_SHEET "34" --> "1" DWG_SHEET_APPROVAL : is approved by
    DRAWING_SHEET "34" --> "1" DWG_SHEET_REVISION : has
    
```


NOTE	TITLE	NUMBER
P3/E34	Attribute Class Diagram: DRAWING SHEET	

<p>ENTITY CLASS DEFINITION: A page/sheet of a drawing carrying with it its sheet identification (sheet number) and relative number of sheets for the drawing (e.g., Sheet 2 of 10).</p> <p>KEY CLASSES: <u>Drawing No., Drawing Sheet No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Drawing Sheet No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>					
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
<p>NODE: DE.S1/E.34</p>			<p>TITLE: GLOSSARY: DRAWING SHEET</p>		
			<p>NUMBER:</p>		



ENTITY CLASS DEFINITION: A document which establishes and describes the technical and physical characteristics and performance requirements of specific equipment, materials, processes, products, or services including the packaging and packing, marking or other essential characteristics or requirements, together with the prescribed methods of inspection and testing for determining that these requirements have been met.

KEY CLASSES: Specification No.

OWNED ATTRIBUTE CLASSES:

NAME: Specification No.

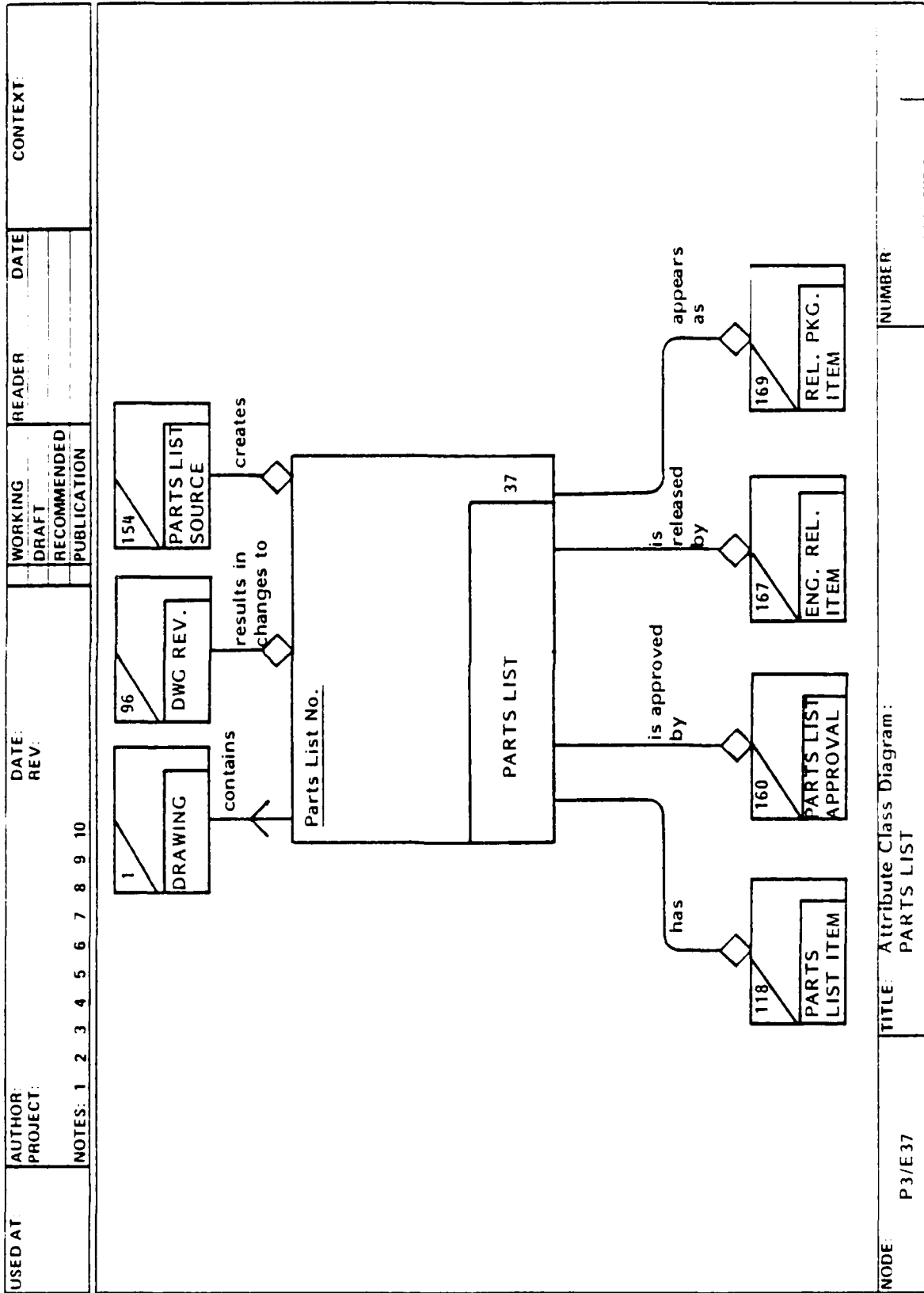
DEFINITION:

NAME:

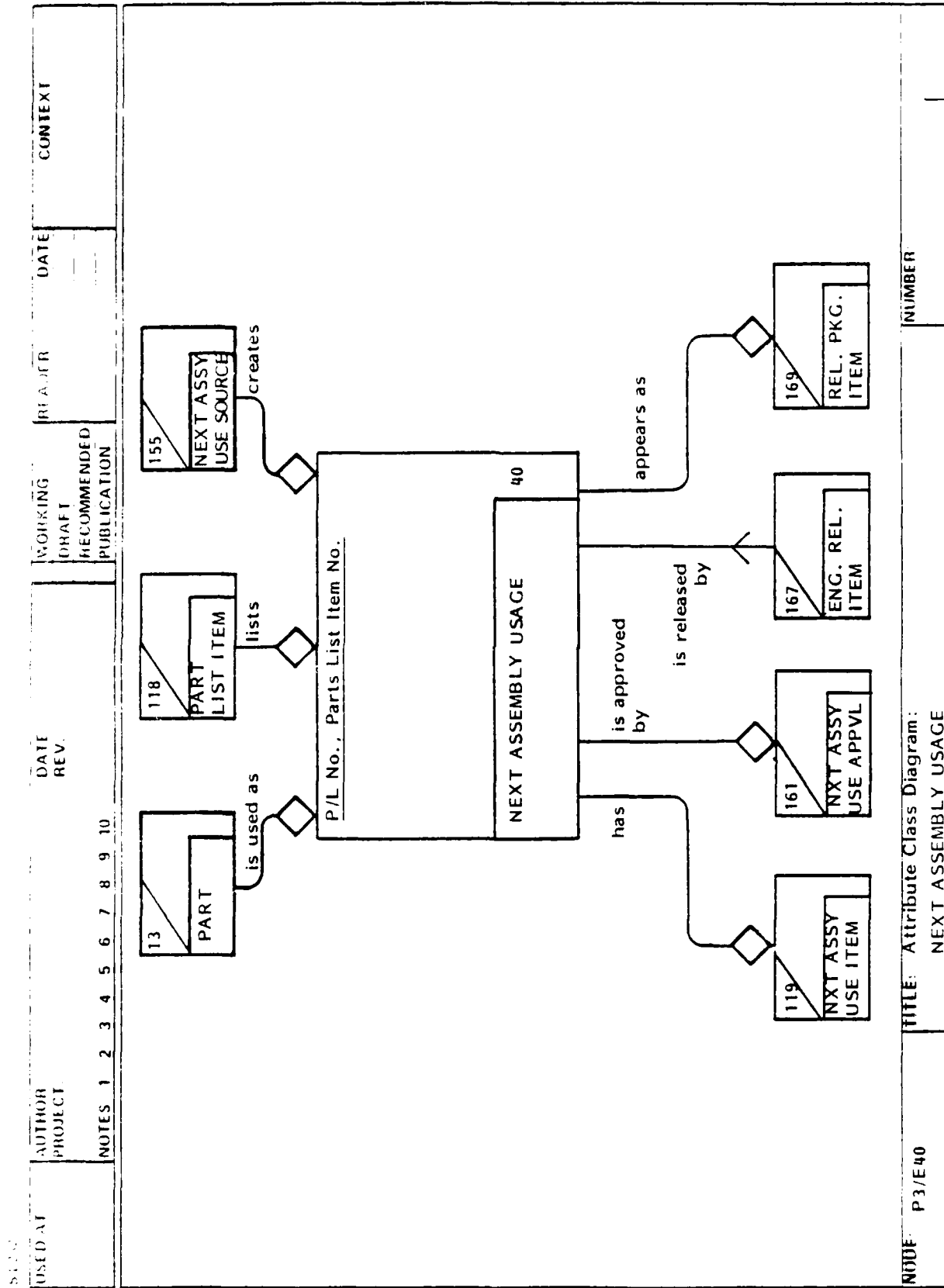
DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
NODE: DESI/E35		TITLE: GLOSSARY: SPECIFICATION			NUMBER:

ST 252



<p>ENTITY CLASS DEFINITION: A document containing all parts and data required to supplement the pictorial and dimensional information on the drawing. Included are materials, processes, finishes, quantities, usage, etc.</p> <p>KEY CLASSES: <u>Parts List No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Parts List No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
<p>NODE: DES1/E37</p>			<p>TITLE: GLOSSARY: PARTS LIST</p>	
			NUMBER:	



ENTITY CLASS DEFINITION: The identification of the physical structure (piece, unit, subassembly, or the like) to which the part will be attached (or into which it will be incorporated) to form that next assembly.

KEY CLASSES: Parts List No., Parts List Item No.

OWNED ATTRIBUTE CLASSES:

NAME:

DEFINITION:

NAME:

DEFINITION:

ENTITY CLASS DEFINITION:

The identification of the physical structure (piece, unit, subassembly, or the like) to which the part will be attached (or into which it will be incorporated) to form that next assembly.

KEY CLASSES:

Parts List No., Parts List Item No.

OWNED ATTRIBUTE CLASSES:

NAME:

DEFINITION:

NAME:

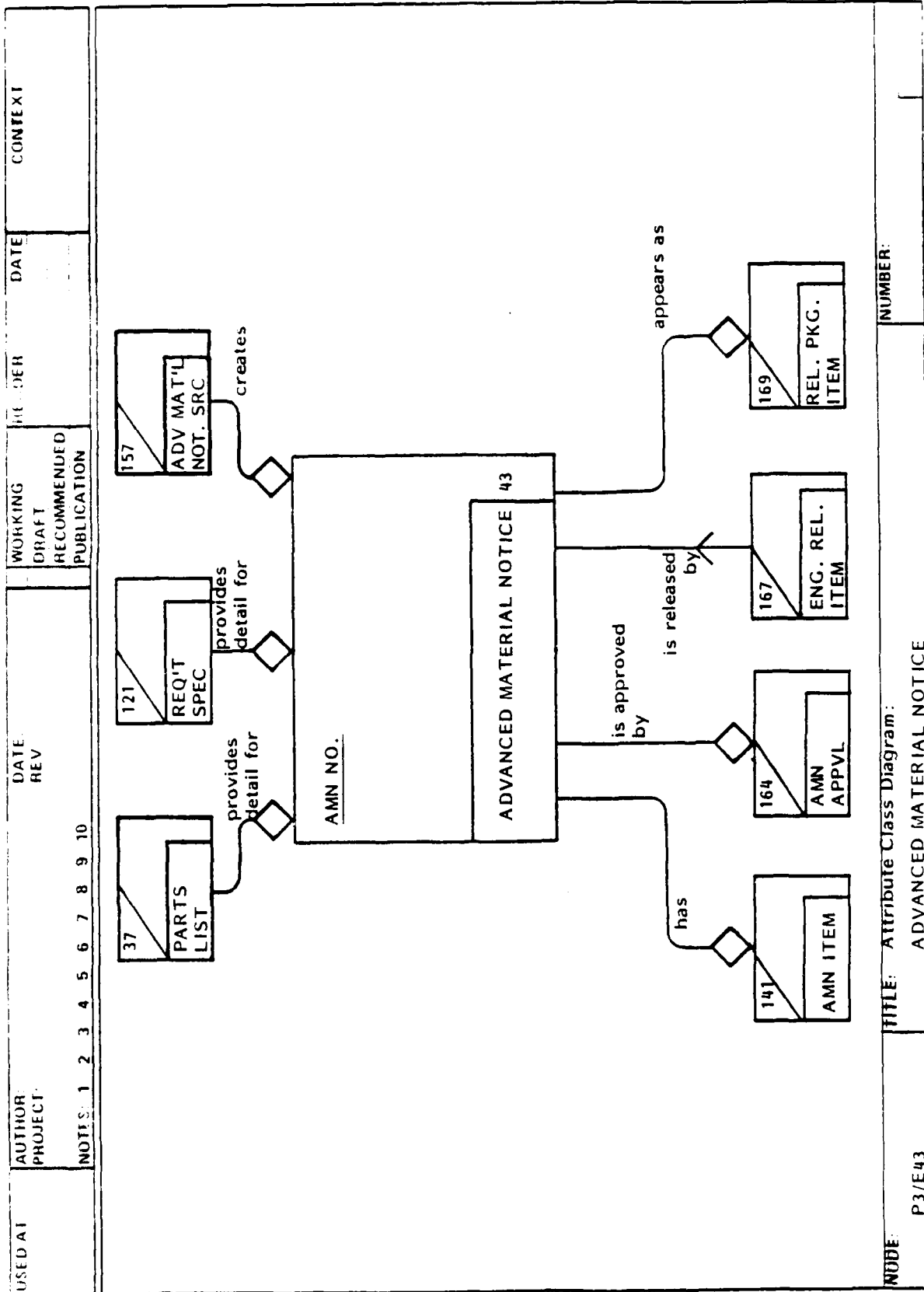
DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
Parts List No. Parts List Item No.	Parts List Parts List Item	35 118	Parts List Item Parts List Item	118 118	lists lists

NODE: 1051/E40

TITLE: GLOSSARY: NEXT ASSEMBLY USAGE

NUMBER:



ENTITY CLASS DEFINITION: A document used as authorization to initiate and expedite procurement, replacement or cancellation of material, including parts and assemblies, after a requirement has been defined, but prior to the completion of the end product drawing(s) and/or EOs.

KEY CLASSES: AMN No.

OWNED ATTRIBUTE CLASSES:

NAME: AMN No.

DEFINITION:

NAME:

DEFINITION:

		Attribute Migration Path		
		Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name:
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number		

NODE:	TITLE:	NUMBER:
DES1/E43	GLOSSARY: ADVANCED MATERIAL NOTICE	

AUTHOR		DATE										REVISION		DATE		CONTEXT	
PROJECT		REV.										DRAFT		RECOMMENDED		PUBLICATION	
NOTES		1	2	3	4	5	6	7	8	9	10						


```

graph TD
    CONTRACT[CONTRACT] -- contains --> WBS[Contract No., WBS No.]
    ECP[ECP PROPOSAL] -- originates --> WBS
    WBS -- specifies and describes --> ENG_TASK[ENG. TASK]
    WBS -- is divided into --> SUMMARY[SUMMARY COST ACC'T]
  
```

NODE:	P3/E55	TITLE:	Attribute Class Diagram: WORK BREAKDOWN STRUCTURE	NUMBER:	1
-------	--------	--------	--	---------	---

ENTITY CLASS DEFINITION: A product-oriented family tree composed of hardware, software, services, and other work tasks which result from efforts during the development and production of an end item, and which completely defines the project/program.

KEY CLASSES: Contract No., WBS No.

OWNED ATTRIBUTE CLASSES:

NAME: WBS No.

DEFINITION:

NAME:

DEFINITION:

		Attribute Migration Path			
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Inherited From:	Inherited Through:	NUMBER:
			Entity Class Name	Relation Class Name	

NODE:	DESIGN/E55	TITLE:	GLOSSARY: WORK BREAKDOWN STRUCTURE	
-------	------------	--------	------------------------------------	--

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AUTHOR PROJECT		DATE REV										WORKING DRAFT		RECOMMENDED PUBLICATION		REVISION		DATE		CONTEXT	
NOTES		1	2	3	4	5	6	7	8	9	10										


```

classDiagram
    class Requirement {
        117
    }
    class Material {
        Material No.
        69
    }
    class MaterialSpecification {
        19
        MATERIAL SPECIFICATION
    }
    Requirement --> Material : is
    Material --> MaterialSpecification : is defined by
  
```


NODE		TITLE: Attribute Class Diagram:		NUMBER	
P3/E69		MATERIAL			

ENTITY CLASS DEFINITION: The information about the basic, or raw material which will be used to fabricate a part or component of the end item.

KEY CLASSES: Material No.

OWNED ATTRIBUTE CLASSES:

NAME: Material No.

DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)		Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		Inherited Through: Relation Class Name
		Entity Class Name	Number	Inherited From: Entity Class Name	Number	

NODE: DE 51/E 69	TITLE: GLOSSARY: MATERIAL	NUMBER:
------------------	---------------------------	---------

USED A	AUTHOR PROJECT	DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	DATE	CONTEXT
NOTES	1 2 3 4 5 6 / 8 9 10				

Procedure No.

MANUAL/PROCEDURE
74

controls
creation
of

3

ENG. ORDER

defines
conduct of

88

APPROVAL
AUTHY

authorizes
and defines

130

ENG.
ASSIGN'T

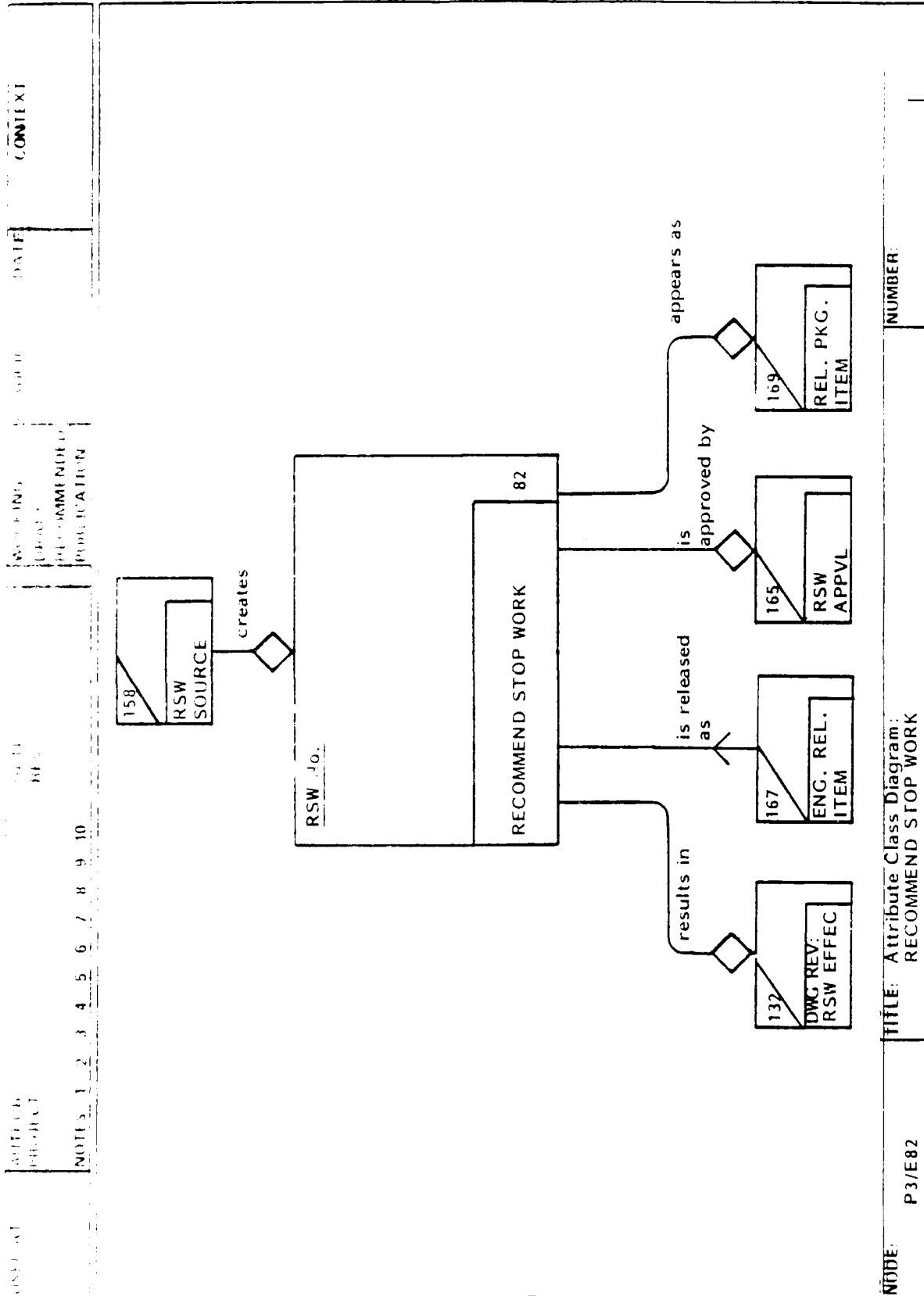
None

P3/E74

Attribute Class Diagram:
MANUAL/PROCEDURE

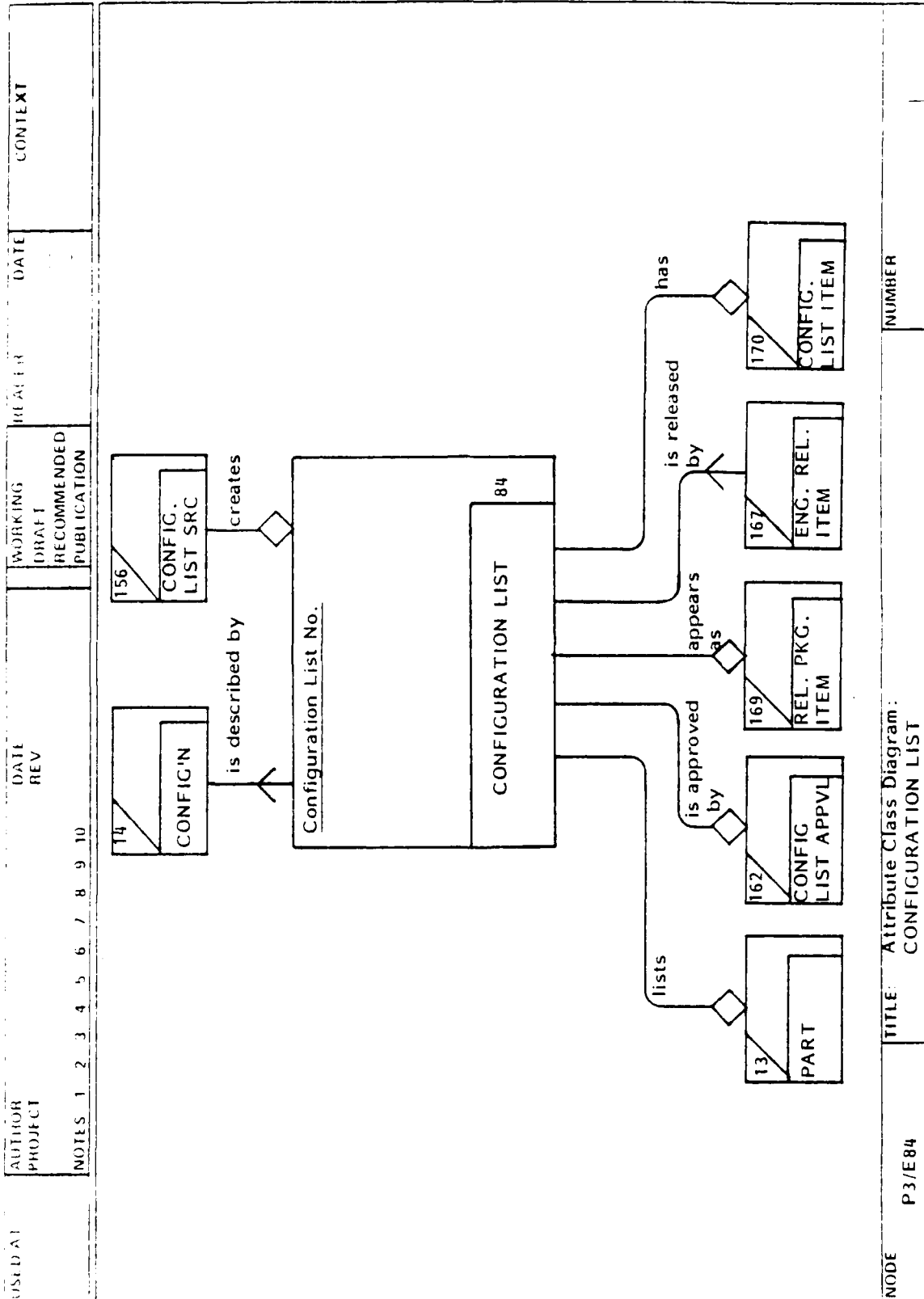
NUMBER

<p>ENTITY CLASS DEFINITION: Prescribe the policies/procedures to be followed when preparing, issuing, monitoring, controlling and processing of design data.</p> <p>KEY CLASSES: <u>Procedure No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: <u>Procedure No.</u></p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
<p>CODE: DESI/E74</p>			<p>TITLE: GLOSSARY: MANUAL/PROCEDURE</p>	
			<p>NUMBER:</p>	



NODE: P3/E82
TITLE: Attribute Class Diagram: RECOMMEND STOP WORK
NUMBER:

<p>ENTITY CLASS DEFINITION: A document issued to expedite information to Manufacturing and those departments which support the manufacturing process in advance of the release of a formal revision authorization. It authorizes Manufacturing to hold or restrict fabrication, assembly, installation and/or procurement of all affected articles for which drawings have been released.</p> <p>KEY CLASSES: <u>RSW No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: RSW No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
NODE: DF-S1/E82	TITLE:	GLOSSARY: RECOMMEND STOP WORK		NUMBER



ENTITY CLASS DEFINITION: A document that provides effectivlty Information for all limited parts, assemblies and travelling parts used to make a specific end item.

KEY CLASSES: Configuration List No.

OWNED ATTRIBUTE CLASSES:

NAME: Configuration List No.

DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name:

NOTE: DF-SI/E84

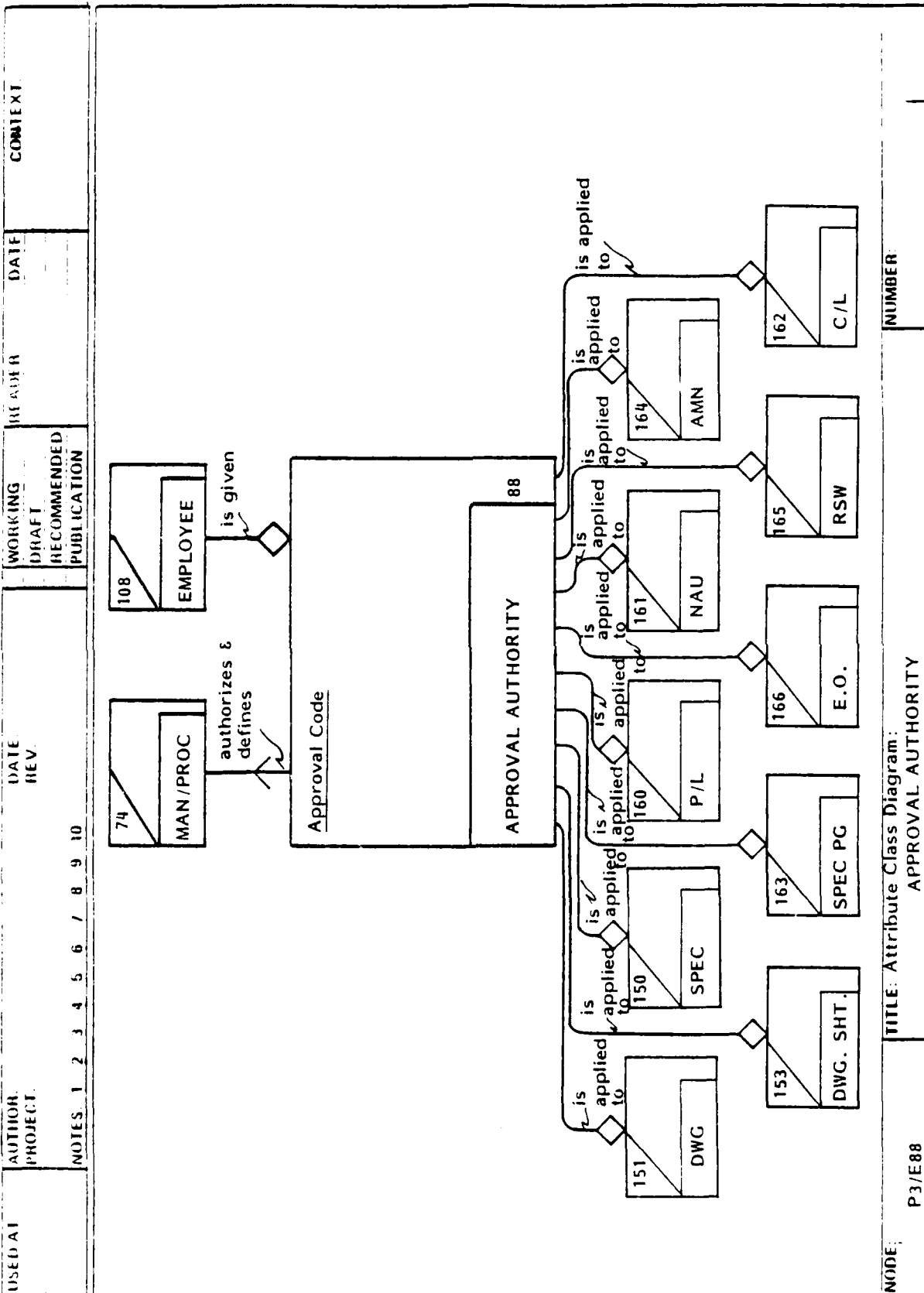
TITLE: GLOSSARY: CONFIGURATION LIST

NUMBER:

AUTHOR		DATE		WORKING		DATE		CONTEXT			
PROJECT		REV		UPDATE		RECOMMENDED					
NOTES		1	2	3	4	5	6	7	8	9	10
<pre> classDiagram class SUMMARY_COST_ACC_T["SUMMARY COST ACC'T"] { 113 } class COST_ACCOUNT["COST ACCOUNT"] { Cost Account No. 87 } class ENG_TASK["ENG. TASK"] { 107 } SUMMARY_COST_ACC_T -- > COST_ACCOUNT : is divided into COST_ACCOUNT -- > ENG_TASK : is assigned to </pre> <p>The diagram illustrates the structure of a Cost Account. It is divided into a SUMMARY COST ACC'T (113) and a COST ACCOUNT (87). The COST ACCOUNT is further assigned to an ENG. TASK (107).</p>											
NODE		P3/E87		TITLE		Attribute Class Diagram:		COST ACCOUNT		NUMBER	

<p>ENTITY CLASS DEFINITION: A subdivision of the WBS and is the level at which Work Package planning is accomplished and performance measurement analysis occurs and where cost/schedule comparisons are made for management control purposes.</p> <p>KEY CLASSES: Cost Account No. _____</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME:</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
<p>NOTE: DE S1/E87</p>			<p>TITLE: GLOSSARY: COST ACCOUNT</p> <p>NUMBER:</p>	

51252



NODE: P3/E88

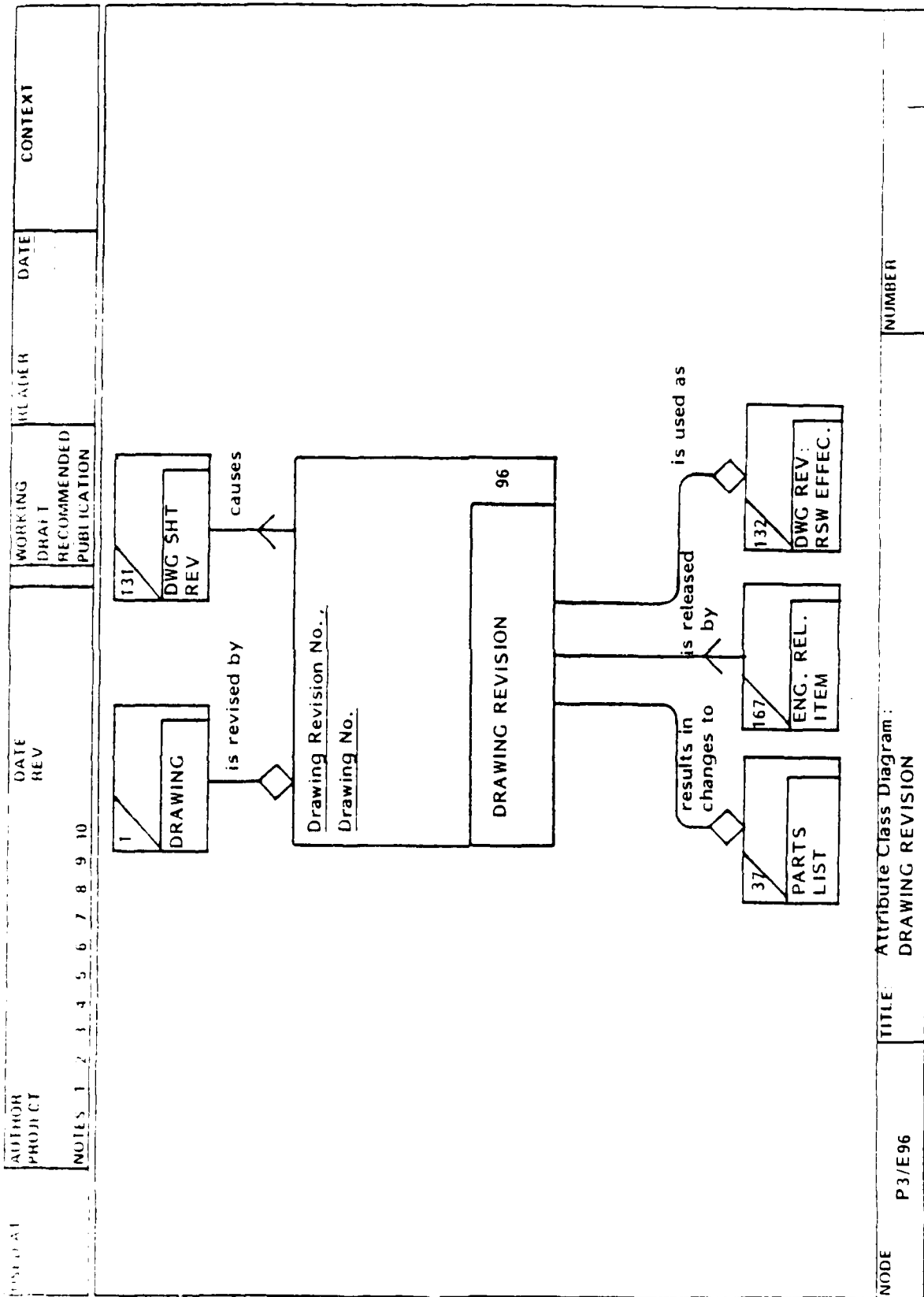
TITLE: Attribute Class Diagram:
APPROVAL AUTHORITY

NUMBER

<p>ENTITY CLASS DEFINITION: The occurrence of the specific Employee being granted authority to approve specific pieces of information as authorized and described by the specific procedure (manual) which governs or pertains to such information.</p> <p>KEY CLASSES: <u>Approval Code</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Approval Code</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
<p>NODE: DESI/E88</p>			<p>TITLE: GLOSSARY: APPROVAL AUTHORITY</p>	
			NUMBER:	

USED AT		AUTHOR PROJECT		DATE REV										WORKING		READER		DATE		CONTEXT	
														DRAFT							
														RECOMMENDED							
														PUBLICATION							
NOTES				1	2	3	4	5	6	7	8	9	10								
<pre> classDiagram class DrawingSourceID { <<id>> } class DrawingSource { 95 } class Drawing { 1 } class DWGSHEET { 34 } class PARTCHANGE { 105 } DrawingSourceID --> DrawingSource : serves as DrawingSource --> Drawing : creates DrawingSource --> DWGSHEET : creates DrawingSource --> PARTCHANGE : creates </pre> <p>The diagram illustrates the relationships between several classes in a drawing system. A central class, Drawing Source ID, is connected to Drawing Source (containing the value 95) via a "serves as" relationship. Drawing Source is then connected to three other classes: Drawing (containing the value 1), DWG. SHEET (containing the value 34), and PART CHANGE (containing the value 105). All three connections from Drawing Source are labeled "creates".</p>																					
NODE:		P3/E95		TITLE: Attribute Class Diagram: DRAWING SOURCE												NUMBER:					

<p>ENTITY CLASS DEFINITION: The occurrence of the effort of creating a Drawing in conjunction with the Engineering Assignment, through which the Employee originates the information according to the task and procedure at hand.</p> <p>KEY CLASSES: <u>Drawing Source ID</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Drawing Source ID</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
NODE: DES1/E95	TITLE:	CLOSSARY: DRAWING SOURCE	NUMBER:	



ENTITY CLASS DEFINITION: The indication and identification of the release level (i.e., the original release and successive modification releases) of the overall Drawing.

KEY CLASSES: Drawing No., Drawing Revision No.

OWNED ATTRIBUTE CLASSES:

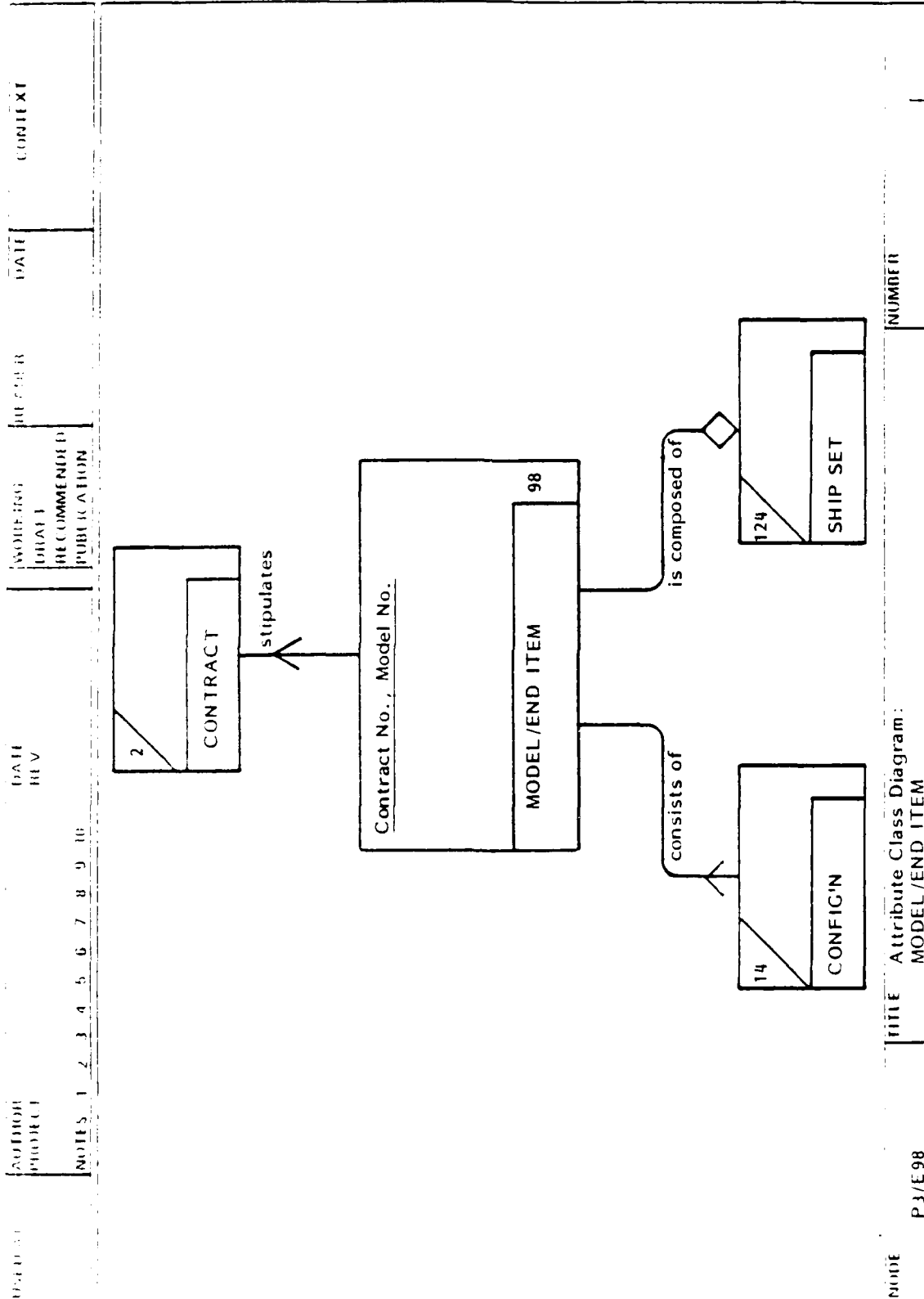
NAME: Drawing Revision No.

DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
Drawing No.	Drawing	1	Drawing	1	Is revised by
NODE: DFSI/E96		TITLE: GLOSSARY: DRAWING REVISION			NUMBER:



ENTITY CLASS DEFINITION: The Identification of the final product, (deliverable end item) which is deliverable under the contract, describing an exact hardware configuration and associated software.

KEY CLASSES: Contract No., Model No.

OWNED ATTRIBUTE CLASSES:

NAME: Model No

DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
Contract No.	Contract	2	Contract	2	stipulates
TITLE:		GLOSSARY: MODEL/END ITEM			NUMBER:
CODE: DESI/F98					

```

classDiagram
    class ENG_ASSIGN_T {
        130
    }
    class SPECIFICATION_SOURCE {
        103
        <<u>Spec Source ID</u>
    }
    class SPEC {
        35
    }
    class SPEC_PAGE {
        134
    }
    ENG_ASSIGN_T "1" -- "1" SPECIFICATION_SOURCE : serves as
    SPECIFICATION_SOURCE "1" -- "1" SPEC : creates
    SPECIFICATION_SOURCE "1" -- "1" SPEC_PAGE : creates
  
```

The diagram illustrates the relationships between four classes in an attribute class diagram for the SPECIFICATION SOURCE:

- ENG. ASSIGN'T** (Class 130) is connected to **SPECIFICATION SOURCE** (Class 103) via a relationship labeled "serves as".
- SPECIFICATION SOURCE** (Class 103) is connected to **SPEC** (Class 35) via a relationship labeled "creates".
- SPECIFICATION SOURCE** (Class 103) is connected to **SPEC PAGE** (Class 134) via a relationship labeled "creates".

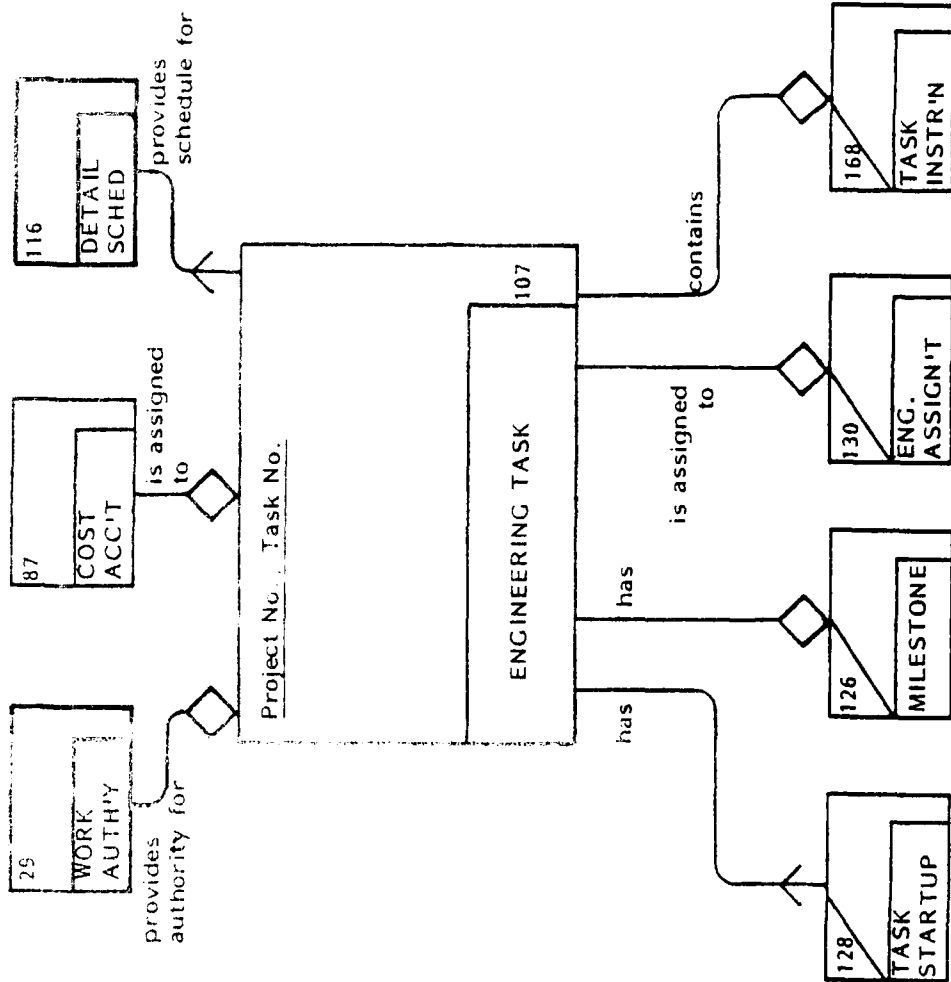
The **SPECIFICATION SOURCE** class has a primary key attribute labeled Spec Source ID.

<p>ENTITY CLASS DEFINITION: The occurrence of the effort of creating a Specification in conjunction with the Engineering Assignment, through which an Employee originates the information according to the task and procedure at hand.</p> <p>KEY CLASSES: <u>Spec. Source ID</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Spec. Source ID</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
<p>NODE: DESI/E103</p>			<p>TITLE: GLOSSARY: SPECIFICATION SOURCE</p>	
			<p>NUMBER:</p>	

AUTHOR PROJECT		DATE REV	WORKING DRAFT	RECOMMENDED PUBLICATION	DATE REV	CONTEXT
NOTES		1	2	3	4	5
<div data-bbox="338 1417 470 1606">ENG ORDER</div>		<div data-bbox="338 1113 470 1302">PART</div>		<div data-bbox="338 808 470 997">DWG. SOURCE</div>		<div data-bbox="338 514 470 703">DWG. REV.</div>
defines		is modified by		creates		incorporates
<div data-bbox="578 798 925 1302"> <div>Part No., E.O. No.</div> <div>PART CHANGE</div> <div>105</div> </div>						
NODE:		TITLE:		Attribute Class Diagram:		NUMBER
P3/E105		PART CHANGE				

<p>ENTITY CLASS DEFINITION: One of several changes that appear on change documentation (e.g., on an ECP), that stipulates the change(s) to be made to a document and its associated documents and activities.</p> <p>KEY CLASSES: Part No., E.O. No.</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME:</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
<p>Inherited Attribute Class(es)</p> <p>Part No. E.O. No.</p>	<p>Attribute Class Owned By:</p> <p>Entity Class Name</p> <p>Part Engineering Order</p>	<p>Number</p> <p>13 3</p>	<p>Attribute Migration Path</p>	
			<p>Inherited From:</p> <p>Entity Class Name</p> <p>Part Engineering Order</p>	<p>Number</p> <p>13 3</p>
<p>NODE: DSI/E105</p>	<p>TITLE: GLOSSARY: PART CHANGE</p>			<p>NUMBER:</p>

AUTHOR	PROJECT	DATE	REV	WORKING	DRAFT	RECOMMENDED	PUBLICATION	DATE	CONTEXT	
NOTES	1	2	3	4	5	6	7	8	9	10



NOTE:	TITLE: Attribute Class Diagram:	NUMBER:
P3/E107	ENGINEERING TASK	

<p>ENTITY CLASS DEFINITION: The incremental effort that constitutes an overall effort or activity which is aimed at completing specific milestones or objectives. Each effort which completes a portion of the deliverable product may be classified as an <u>Eng. Task</u>.</p> <p>KEY CLASSES: <u>Project No.</u>, <u>Task No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Project No.</p> <p>DEFINITION:</p> <p>NAME: Task No.</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
<p>NOTE: DESI/E10/</p>			<p>TITLE: GLOSSARY: ENGINEERING TASK</p>	
			<p>NUMBER:</p>	

SET 2		AUTHOR PROJECT		DATE REV		WORKING DRAFT		RECOMMENDED PUBLICATION		HEADER		DATE		CONTEXT	
USED A1		NOTES 1 2 3 4 5 6 7 8 9 10													

Employee No.

EMPLOYEE 108

is given

performs

APPROVAL AUTH'Y 88

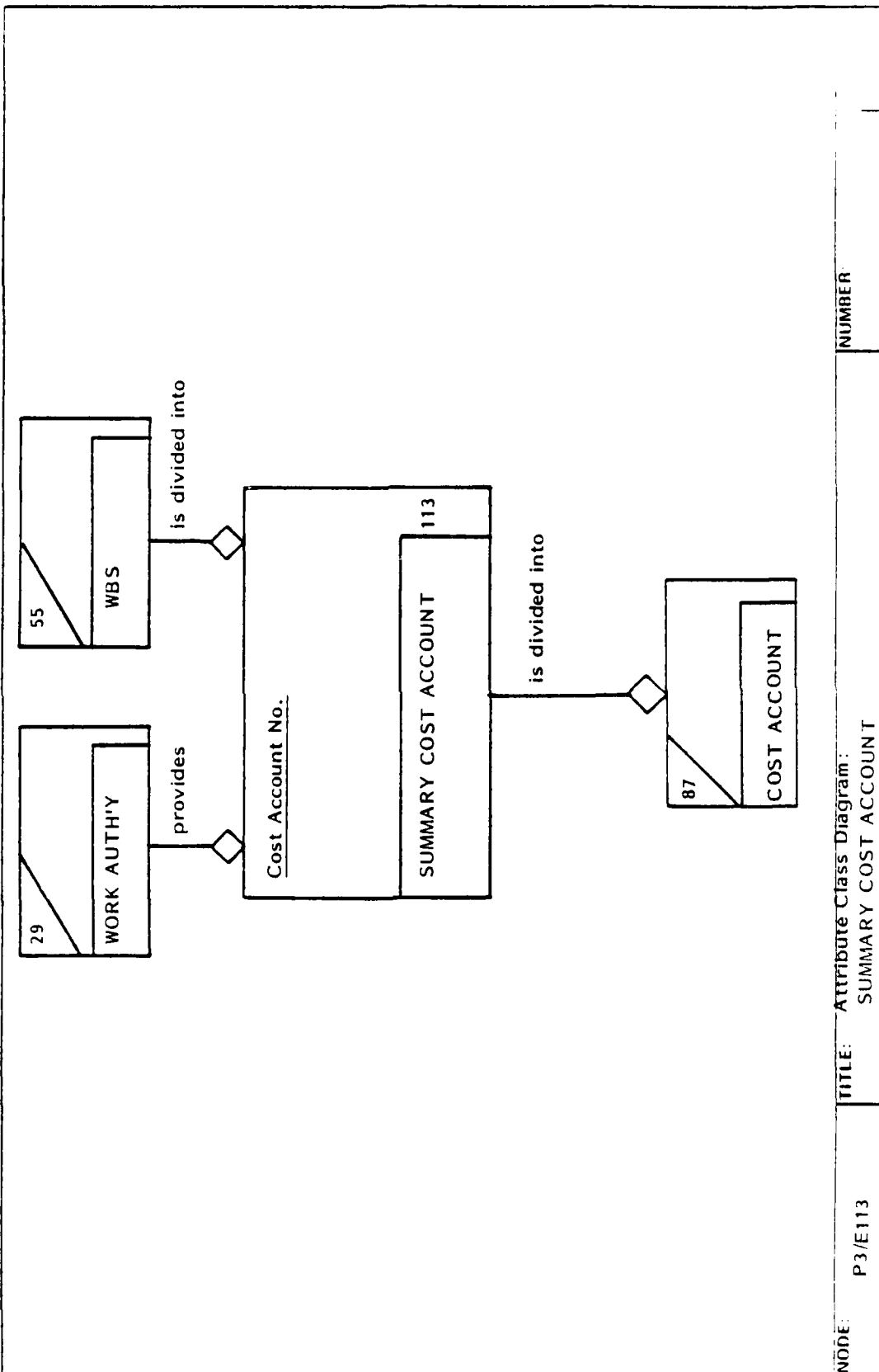
ENG. ASSIGNMENT 130

Attribute Class Diagram:		NUMBER	
NODE	P3/E108	TITLE	EMPLOYEE

<p>ENTITY CLASS DEFINITION: An individual who is on the company payroll, has unique company identification, receives the benefits of the company, and performs a specific function or service, usually assigned to an organization, unit, or other control agency.</p> <p>KEY CLASSES: <u>Employee No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Employee No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
<p>NODE: DFS1/E108</p>			<p>TITLE: GL OSSARY: EMPLOYEE</p>	
			<p>NUMBER:</p>	

ST 252

USED AT:	AUTHOR: PROJECT:	DATE: REV:	WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
NOTES: 1 2 3 4 5 6 7 8 9 10						



NOTE: P3/E113 TITLE: Attribute Class Diagram: SUMMARY COST ACCOUNT NUMBER

<p>ENTITY CLASS DEFINITION: The first-level subdivision of the WBS. It serves as the summation level for the appropriate Work Package efforts. It provides an analysis of the associated WBS items.</p> <p>KEY CLASSES: <u>Cost Account No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Cost Account No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name;
<p>NODE: (★) S1/E113</p>			<p>TITLE: GLOSSARY: SUMMARY COST ACCOUNT</p>	
			NUMBER:	

ST252

USED AT	AUTHOR:	DATE:	WORKING	READER	DATE	CONTEXT
	PROJECT:	REV:	DRAFT			
NOTES: 1 2 3 4 5 6 7 8 9 10						

3

CONTRACT

authorizes

11

PROPOSAL

causes creation of

Contract No., Master Sched. No.

MASTER SCHEDULE

114

provides the basis for

115

FUNCT/SUBCON SCHEDULE

NODE: P3/E114

TITLE: Attribute Class Diagram:
MASTER SCHEDULE

NUMBER:

ENTITY CLASS DEFINITION: The overall schedule of an organization's overall resources - scheduling manpower, machinery, tools, etc., required to produce the end items. The Master Schedule, then, becomes the guide for producing the various product delivery schedules for the orders which are active or pending.			
KEY CLASSES: <u>Contract No., Master Schedule No.</u>			
OWNED ATTRIBUTE CLASSES:			
NAME: Master Schedule No.			
DEFINITION:			
NAME:			
DEFINITION:			

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		NUMBER:
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name	
Contract No.	Contract	2	Contract	authorizes	

NODE: DX S1/E114	TITLE: GLOSSARY: MASTER SCHEDULE	NUMBER:
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AUTHOR PROJECT		DATE REV		WORKING DRAFT		RECOMMENDED PUBLICATION		HEADER		DATE		CONTEXT	
NOTES		1	2	3	4	5	6	7	8	9	10		

115

MASTER SCHEDULE

provides the basis for

Master Sched. Item No.

FUNCTIONAL/SUBCONTRACT SCHEDULE

115

is divided into

116

DETAIL SCHED.

CODE	P3/E115	TITLE	Attribute Class Diagram: FUNCT/SUBCON SCHEDULE	NUMBER
------	---------	-------	---	--------

AD-A142 447

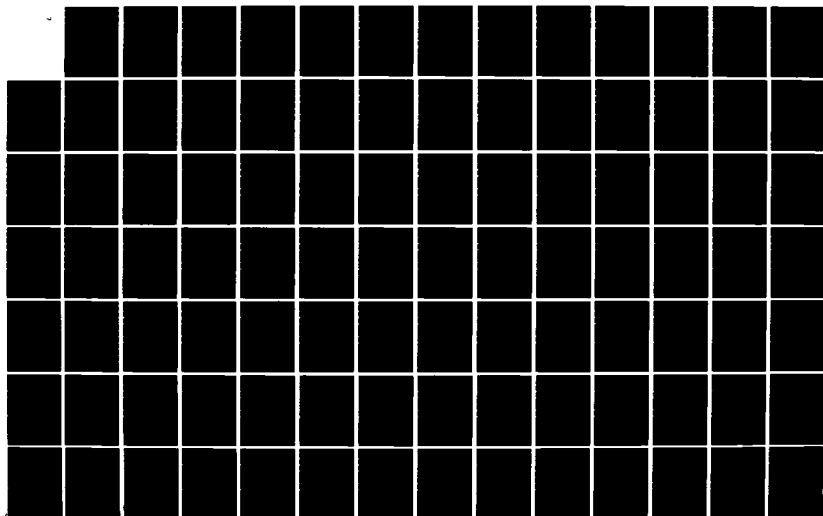
INTEGRATED COMPUTER-AIDED MANUFACTURING (ICAM)
ARCHITECTURE PART 3 VOLUME (U) SOFTECH INC WALTHAM MA
C MARTIN ET AL SEP 83 1080-33 AFMAL-TR-82-4063-VOL-4
F33615-80-C-5109

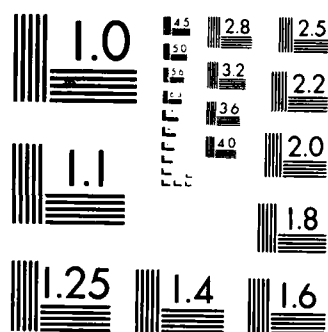
2/3

UNCLASSIFIED

F/G 9/2

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

ST 252

USED AT:	AUTHOR: PROJECT:	DATE: REV:	WORKING: DRAFT RECOMMENDED PUBLICATION	READER:	DATE:	CONTEXT:
<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> NOTES: 1 2 3 4 5 6 7 8 9 10 </div> <div style="width: 70%; text-align: center;"> <pre> classDiagram class 115["115 FUNCT/SUBCON SCHEDULE"] class 116["116 DETAIL SCHEDULE"] class 107["107 ENG. TASK"] 115 -- > 116 : is divided into 116 -- > 107 : provides schedule for </pre> </div> <div style="width: 15%;"></div> </div>						
NODE: P3/E116		TITLE: Attribute Class Diagram: DETAIL SCHEDULE			NUMBER:	

<p>ENTITY CLASS DEFINITION: The second-level breakdown from the Master Schedule. It provides for the scheduling of the work to be performed at the subfunction-level. It is assigned to the Work Packages which are generated.</p> <p>KEY CLASSES: <u>Detail Schedule No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Detail Schedule No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
NODE: DESI/E116	TITLE: GLOSSARY: DETAIL SCHEDULE			NUMBER:

ST252

USED AT	AUTHOR:	DATE:	WORKING	READER	DATE	CONTEXT
	PROJECT:	REV.	DRAFT			
NOTES: 1 2 3 4 5 6 7 8 9 10						

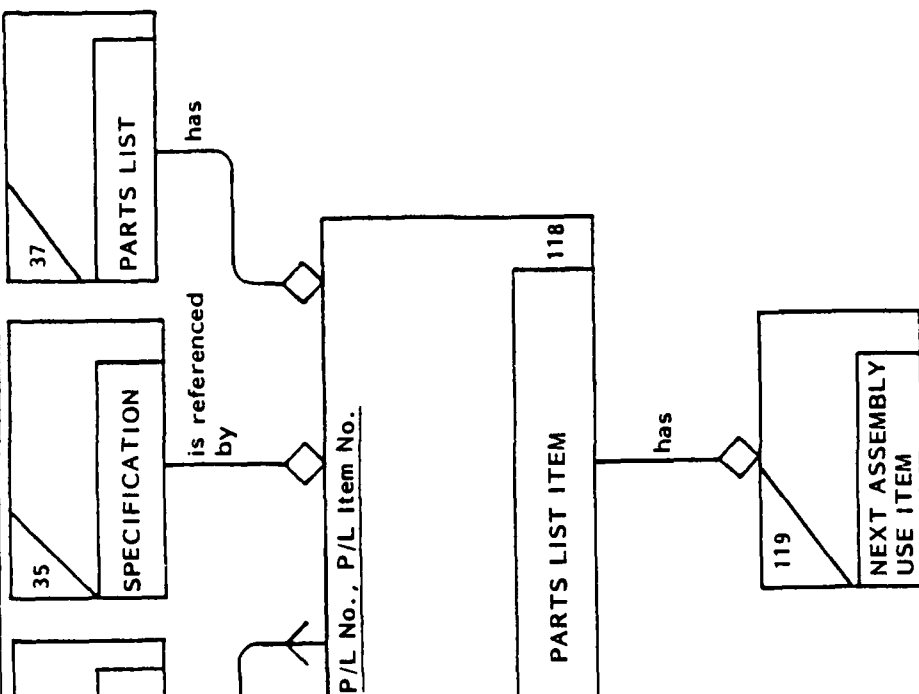

```

classDiagram
    class PROPOSAL {
        11
    }
    class CONFIG'N {
        14
    }
    class REQUIREMENT {
        Contract No., Prod. Spec. No.
        117
    }
    class SPECIF'N {
        35
    }
    class ADVANCED_MAT'L_NOT {
        43
    }
    class REQ'TS_SPEC {
        121
    }
    class MATERIAL {
        69
    }

    PROPOSAL --> REQUIREMENT : identifies changes to
    CONFIG'N --> REQUIREMENT : is identified as
    REQUIREMENT --> SPECIF'N : is defined by
    REQUIREMENT --> ADVANCED_MAT'L_NOT : provides detail for
    REQUIREMENT --> REQ'TS_SPEC : is defined by
    REQUIREMENT --> MATERIAL : is
  
```

NODE: P3/E117 TITLE: Attribute Class Diagram: REQUIREMENT

<p>ENTITY CLASS DEFINITION: A specified or stipulated end item deliverable, which will be further defined by the various specifications. Then, the Design Data will ultimately satisfy the requirements.</p> <p>KEY CLASSES: <u>Contract No., Prod. Spec. No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Contract No.</p> <p>DEFINITION:</p> <p>NAME: Production Spec. No.</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
<p>NOTE: DESI/E117</p>			<p>TITLE: GLOSSARY: REQUIREMENT</p>	
			<p>NUMBER:</p>	

ST254	USED AT	AUTHOR PROJECT	DATE REV.	WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
	<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> NOTES 1 2 3 4 5 6 7 8 9 10 </div> <div style="width: 85%; text-align: center;">  <pre> classDiagram class PART { 13 } class SPECIFICATION { 35 } class PARTS_LIST_ITEM { 118 } class NEXT_ASSEMBLY_USE_ITEM { 119 } class PARTS_LIST { 37 } PART --> PARTS_LIST_ITEM : is SPECIFICATION --> PARTS_LIST_ITEM : is referenced by PARTS_LIST_ITEM --> NEXT_ASSEMBLY_USE_ITEM : has PARTS_LIST_ITEM --> PARTS_LIST : has </pre> </div> </div>						
	<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> 13 PART </div> <div style="width: 15%;"> 35 SPECIFICATION </div> <div style="width: 15%;"> 118 PARTS LIST ITEM </div> <div style="width: 15%;"> 119 NEXT ASSEMBLY USE ITEM </div> <div style="width: 15%;"> 37 PARTS LIST </div> </div>						

NODE P3/E118	TITLE Attribute Class Diagram:	NUMBER PARTS LIST ITEM
-----------------	-----------------------------------	---------------------------

<p>ENTITY CLASS DEFINITION: The chronological breakdown and sequencing of the entries which will appear on the Parts List. These are the identities of the details which appear on the drawing to which the Parts List is associated.</p> <p>KEY CLASSES: <u>P/L No., P/L Item No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: P/L Item No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				<p align="center">Attribute Migration Path</p> <table border="1"> <tr> <th>Inherited From: Entity Class Name</th> <th>Number</th> <th>Inherited Through: Relation Class Name:</th> </tr> <tr> <td>Parts List</td> <td align="center">37</td> <td>has</td> </tr> </table>			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name:	Parts List	37	has
Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name:										
Parts List	37	has										
<p>Inherited Attribute Class(es)</p> <p>P/L No.</p>	<p>Attribute Class Owned By: Entity Class Name</p> <p>Parts List</p>	<p>Number</p> <p align="center">37</p>	<p>NUMBER:</p>									
<p>NODE: DES1/E118</p>		<p>TITLE: GLOSSARY: PARTS LIST ITEM</p>										

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USED AT AUTHOR PROJECT NOTES 1 2 3 4 5 6 7 8 9 10	DATE REV. WORKING DRAFT RECOMMENDED PUBLICATION	READER DATE	CONTEXT
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```

classDiagram
    class PART {
        13
    }
    class NEXT_ASSEMBLY_USAGE {
        40
    }
    class PARTS_LIST_ITEM {
        118
    }
    class NEXT_ASSEMBLY_USAGE_ITEM {
        119
    }
    PART --> NEXT_ASSEMBLY_USAGE : is referenced as
    NEXT_ASSEMBLY_USAGE --> PARTS_LIST_ITEM : has
    NEXT_ASSEMBLY_USAGE --> NEXT_ASSEMBLY_USAGE_ITEM : has
    
```

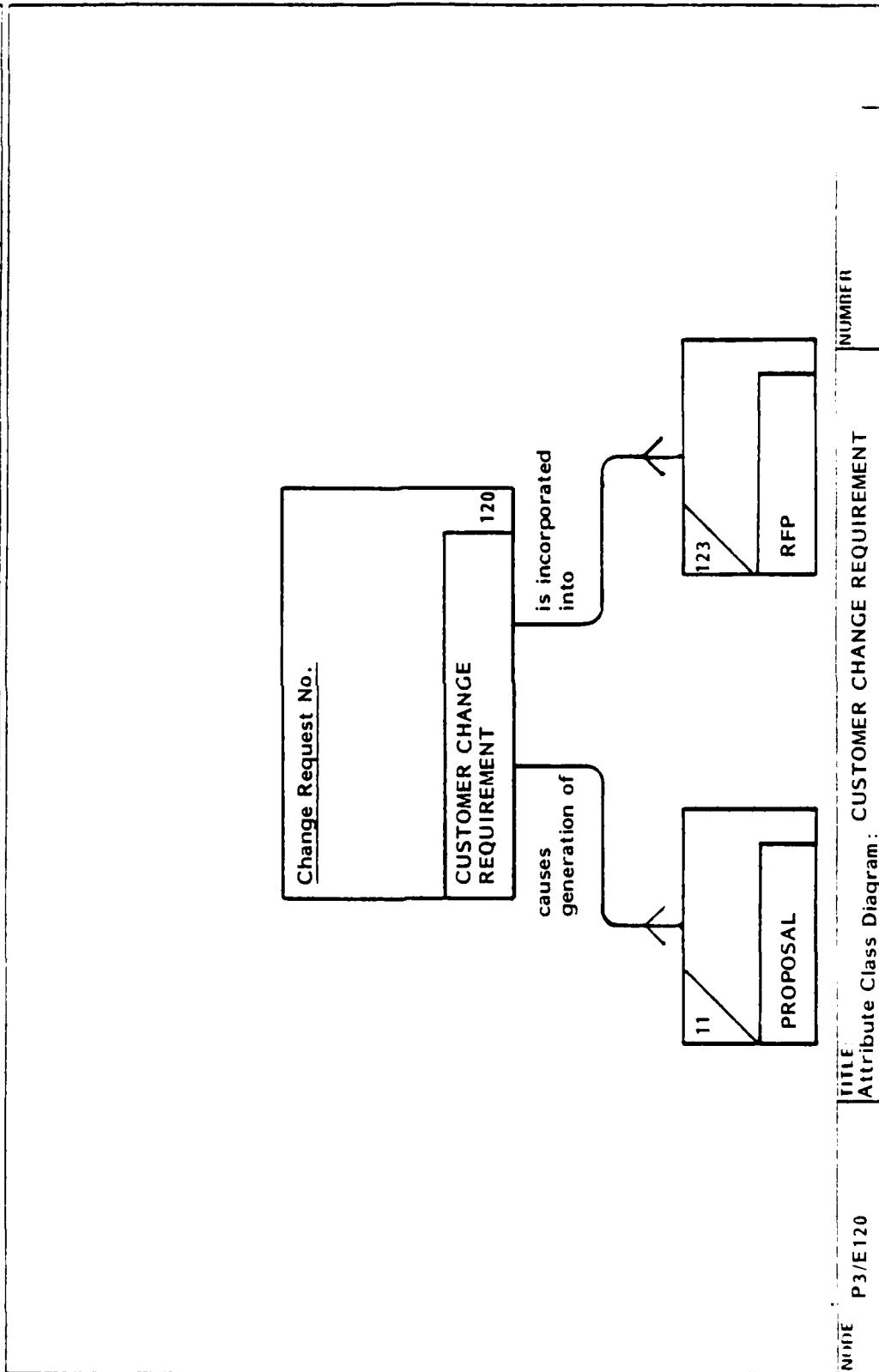
The diagram illustrates the relationships between four classes: PART, NEXT ASSEMBLY USAGE, PARTS LIST ITEM, and NEXT ASSEMBLY USAGE ITEM. PART (13) is referenced as NEXT ASSEMBLY USAGE (40). NEXT ASSEMBLY USAGE (40) has a relationship with PARTS LIST ITEM (118) and NEXT ASSEMBLY USAGE ITEM (119). The relationship between NEXT ASSEMBLY USAGE (40) and PARTS LIST ITEM (118) is labeled 'has'. The relationship between NEXT ASSEMBLY USAGE (40) and NEXT ASSEMBLY USAGE ITEM (119) is also labeled 'has'. A note 'P/L No., Next Ass'y Use Item No.' is associated with the NEXT ASSEMBLY USAGE ITEM (119).

NODE P3/E119	TITLE Attribute Class Diagram: NEXT ASSEMBLY USAGE ITEM	NUMBER
--------------	---	--------

<p>ENTITY CLASS DEFINITION: The chronological and sequenced identification of all, and each, of the Next Assemblies into which the associated Parts List Item (Part Number) will be incorporated.</p> <p>KEY CLASSES: <u>P/L No., Next Ass'y. Usage Item No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Next Ass'y. Usage Item No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
P/L No. P/L No.	Parts List Parts List	37 37	Parts List Item Next Assembly Usage	118 40
<p>NUMBER: DESI/EL19</p>			<p>NUMBER:</p>	
<p>TITLE: GLOSSARY: NEXT ASSEMBLY USAGE ITEM</p>				

51252

USED AT	AUTHOR PROJECT	DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT
NOTES: 1 2 3 4 5 6 7 8 9 10						



<p>ENTITY CLASS DEFINITION: That notification from the customer that a change in the contracted end item is desired. Subsequent to the identification of the requirement, a proposal estimating the change's impact is produced, or plans to incorporate the change (Contract Amendment) are prepared are readied for release.</p> <p>KEY CLASSES: <u>Change Request No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Change Request No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
<p>NODE: DF51/E120</p>		<p>TITLE: GLOSSARY: CUSTOMER CHANGE REQUIREMENT</p>		<p>NUMBER:</p>

ST 352

USED AT AUTHOR: PROJECT NOTES: 1 2 3 4 5 6 7 8 9 10	DATE REV: 1 2 3 4 5 6 7 8 9 10	WORKING DRAFT RECOMMENDED PUBLICATION	READER DATE	CONTEXT
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```

classDiagram
    class Spec35["SPECIFICATION 35"]
    class Req117["REQUIREMENT 117"]
    class ReqSpec121["Requirement Specification No. 121"]
    class Adv43["ADV MATERIAL NOTICE 43"]
    class MatSpec19["MATERIAL SPECIFICATION 19"]

    Spec35 --> ReqSpec121 : is
    Req117 --> ReqSpec121 : is defined by
    ReqSpec121 --> Adv43 : provides detail for
    ReqSpec121 --> MatSpec19 : references
      
```

NODE: P3/E121	TITLE: Attribute Class Diagram: REQUIREMENT SPECIFICATION	NUMBER:
---------------	---	---------

<p>ENTITY CLASS DEFINITION: The definitive description of the end items which are stipulated in the Contract. Often times the Req'ts. Spec is a part of the Contract. It serves as the foundation for the development of the Design documentation-drawings, specifications, etc., etc. it defines the Requirement.</p> <p>KEY CLASSES: <u>Req't. Spec. No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: <u>Req't. Spec. No.</u></p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
<p>NODE: DE-S1/E121</p>		<p>TITLE: GLOSSARY: REQUIREMENT SPECIFICATION</p>		<p>NUMBER:</p>

SL252

USED AT	AUTHOR: PROJECT:	DATE: REV:	WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT
NOTES: 1 2 3 4 5 6 7 8 9 10	<pre> graph LR RFP["123 RFP"] -- "results in" --> CC["Contract Change No. CONTRACT CHANGE 122"] CC -- "is an addendum to" --> C["2 CONTRACT"] </pre>					
NODE P3/E122	TITLE: Attribute Class Diagram: CONTRACT CHANGE		NUMBER:			

ENTITY CLASS DEFINITION: An official (released and accepted) change to the Contract Requirements, affecting the deliverable product (end item). Sometimes referred to as a Contract Amendment or Contract Addendum.

KEY CLASSES: Contract Change No.

OWNED ATTRIBUTE CLASSES:

NAME: Contract Change No.

DEFINITION:

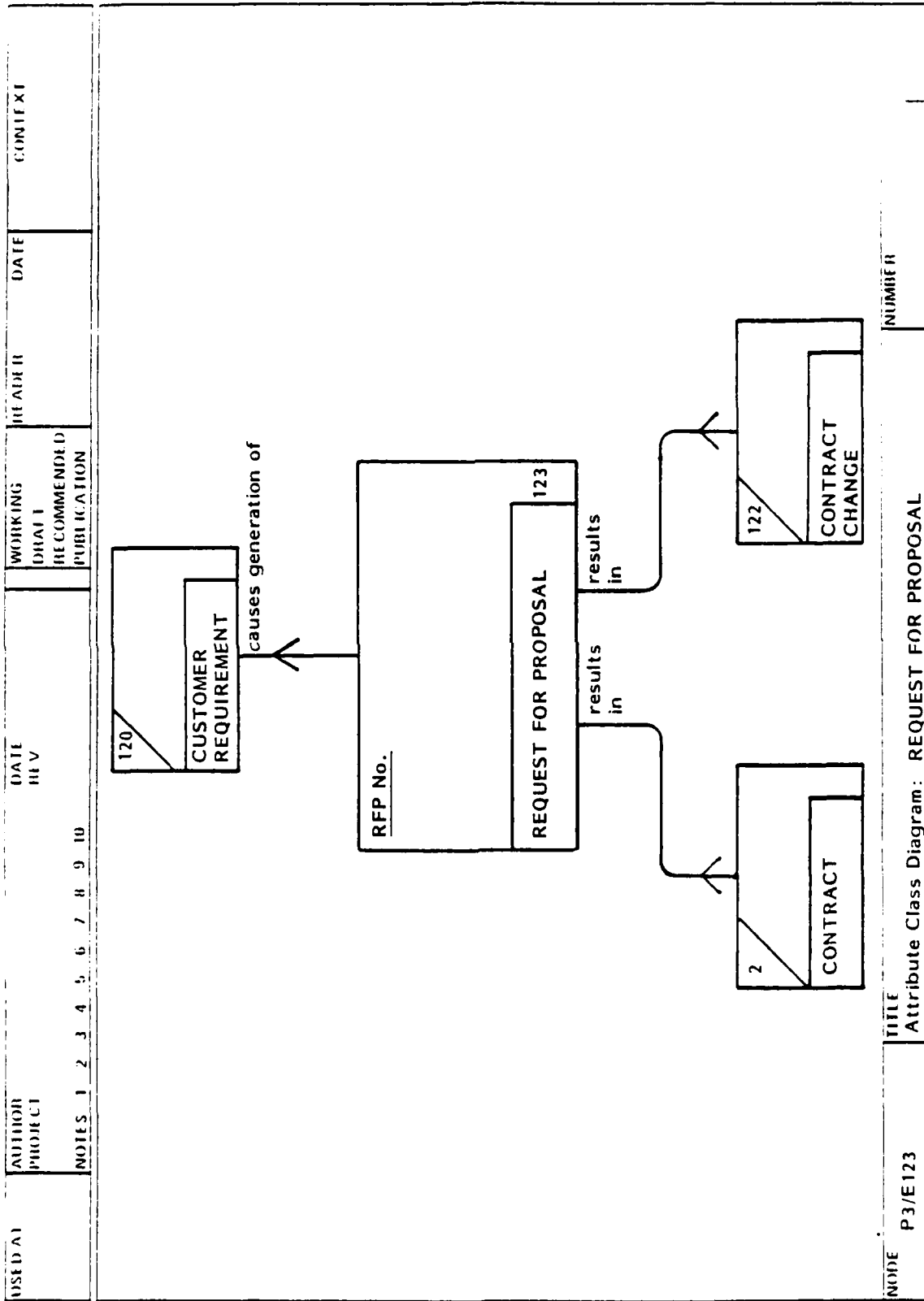
NAME:

DEFINITION:

Inherited Attribute Class(es)		Attribute Class Owned By:		Attribute Migration Path		
		Entity Class Name	Number	Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name:

NODE:	DES1/E122	TITLE:	GLOSSARY: CONTRACT CHANGE	NUMBER:	
--------------	------------------	---------------	----------------------------------	----------------	--

5.1.2.2



<p>ENTITY CLASS DEFINITION: A request to prepare a proposal/quotation for a specific end item, or change to a specific end item.</p> <p>KEY CLASSES: <u>RFP No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: RFP No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				<p align="center">Attribute Migration Path</p> <table border="1"> <tr> <th>Inherited From: Entity Class Name</th> <th>Number</th> <th>Inherited Through: Relation Class Name</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name			
Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name										
<p>Inherited Attribute Class(es)</p>	<p>Attribute Class Owned By: Entity Class Name</p>	<p>Number</p>	<p>Attribute Migration Path</p> <table border="1"> <tr> <th>Inherited From: Entity Class Name</th> <th>Number</th> <th>Inherited Through: Relation Class Name</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name				
Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name										
<p>NOTE: DES1/E123</p>	<p>TITLE:</p>	<p>CLOSSARY: REQUEST FOR PROPOSAL</p>			<p>NUMBER:</p>							

SI 252

USED AT	AUTHOR: PROJECT	DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT
NOTES 1 2 3 4 5 6 7 8 9 10						


```

classDiagram
    class SHIP_SET {
        Config. No., Model No., Line No.
    }
    class CONFIGURATION {
        14
    }
    class MODEL_END_ITEM {
        98
    }
    class EFFECTIVITY {
        125
    }
    class SHIP_SET_PART_EFF {
        146
    }
    SHIP_SET --> CONFIGURATION : is composed of
    SHIP_SET --> MODEL_END_ITEM : is composed of
    SHIP_SET --> EFFECTIVITY : has
    SHIP_SET --> SHIP_SET_PART_EFF : is used as
  
```

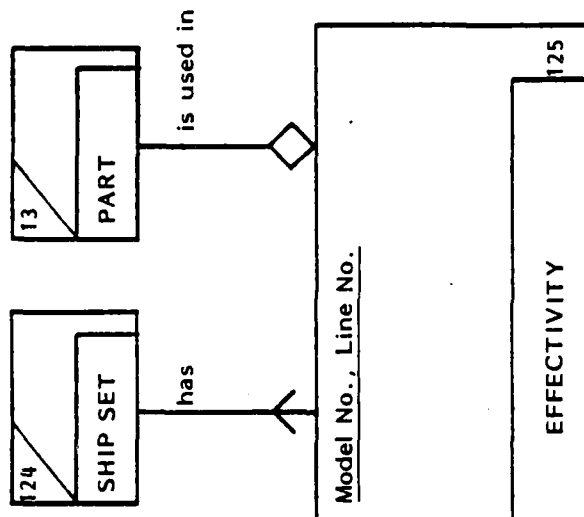
The diagram illustrates the relationships between the SHIP SET and its associated components. The SHIP SET is the central entity, defined by its configuration number, model number, and line number. It is composed of a CONFIGURATION (14) and a MODEL/END ITEM (98). Additionally, the SHIP SET has an EFFECTIVITY (125) and is used as a SHIP SET: PART EFF. (146).

NODE P3/E124	TITLE Attribute Class Diagram: SHIP SET	NUMBER
--------------	--	--------

<p>ENTITY CLASS DEFINITION: The identification and description of all of the design details (parts and support equipment) which are to be a part of a specific end item.</p> <p>KEY CLASSES: <u>Config. No., Model No., Line No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Config. No.</p> <p>DEFINITION:</p> <p>NAME: Line No.</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
Model No.	Model/End Item	98	Model/End Item	2 Is composed of
<p>MODE: DESI/E124</p>		<p>TITLE: GLOSSARY: SHIP SET</p>		<p>NUMBER:</p>

ST 252

USED AT	AUTHOR PROJECT	DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT
NOTES 1 2 3 4 5 6 7 8 9 10						



NOTES	TITLE	NUMBER
P3/E125	Attribute Class Diagram: EFFECTIVITY	

ENTITY CLASS DEFINITION: The designation of the range of Ship Sets (i.e., the beginning and ending "tail number) into which the applicable part will be incorporated or is approved for incorporation. Effectivity groups the deliverables into discrete quantities, which provide for the recognition of differences (contractually or managerially).			
KEY CLASSES: Model No., Line No.			
OWNED ATTRIBUTE CLASSES:			
NAME:			
DEFINITION:			
NAME:			
DEFINITION:			

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
Model No. Line No.	Model/End Item Ship Set	98 124	Ship Set Ship Set	has has

NODE: D/S1/E125	TITLE: GLOSSARY: EFFECTIVITY	NUMBER:
------------------------	-------------------------------------	----------------

SI 252

USED AT	AUTHOR: PROJECT:	DATE: REV:	WORKING DRAFT	RECOMMENDED PUBLICATION	HEADER	DATE	CONTENT
NOTES: 1 2 3 4 5 6 7 8 9 10							


```

classDiagram
    class EngineeringTask {
        107
    }
    class Milestone {
        126
        Proj. No., Task No., Date
    }
    class MilestoneAchievement {
        127
    }
    EngineeringTask "1" -- "*" Milestone : has
    Milestone --> MilestoneAchievement : results in
  
```

The diagram illustrates the relationships between three classes: **ENGINEERING TASK** (ID 107), **MILESTONE** (ID 126), and **MILESTONE ACHIEVEMENT** (ID 127). The **ENGINEERING TASK** class has a one-to-many relationship with the **MILESTONE** class, indicated by a diamond on the **ENGINEERING TASK** side and the label "has". The **MILESTONE** class has a one-to-many relationship with the **MILESTONE ACHIEVEMENT** class, indicated by an arrow pointing from **MILESTONE** to **MILESTONE ACHIEVEMENT** and the label "results in". The **MILESTONE** class has attributes **Proj. No.**, **Task No.**, and **Date**.

NOTE: P3/E126	TITLE: Attribute Class Diagram: MILESTONE	NUMBER
---------------	--	--------

ENTITY CLASS DEFINITION: An Interim (i.e., between the Start of a Task and its Completion) event or activity which is indicative of the satisfactory progress being made on the Task, once the Milestone is satisfactorily met.			
KEY CLASSES: <u>Project No.</u> , <u>Task No.</u> , <u>Date</u>			
OWNED ATTRIBUTE CLASSES:			
NAME: Date			
DEFINITION:			
NAME:			
DEFINITION:			

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Proj. No. Task No.	Engineering Task Engineering Task	107 107	Engineering Task Engineering Task	has has

NODE: DE S1/E126	TITLE: GLOSSARY: MILESTONE	NUMBER:
-------------------------	-----------------------------------	----------------

ST 252

USED AT	AUTHOR: PROJECT:	DATE REV:	WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTENTS
NOTES: 1 2 3 4 5 6 7 8 9 10						


```

classDiagram
    class "107" ENGINEERING TASK
    class "128" TASK STARTUP
    class "129" TASK COMPLETION
    ENGINEERING TASK --> TASK STARTUP : has
    TASK STARTUP --> TASK COMPLETION : results in
    
```


NODE P3/E128	TITLE: Attribute Class Diagram: TASK STARTUP	NUMBER
-----------------	---	--------

<p>ENTITY CLASS DEFINITION: The recorded indication of the "actual" start of a task and is the repository of the "current status" of that task, in terms of the "percentage of completion," etc.</p> <p>KEY CLASSES: <u>Proj. No., Task No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME:</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
Proj. No. Task No.	Engineering Task Engineering Task	107 107	107 107	has has
NODE: DES1/E128	TITLE: GLOSSARY: TASK STARTUP			NUMBER:

1080-33

51752

USED AT	AUTHOR PROJECT	DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	REVIEWER	DATE	CONTENT
NOTES	1 2 3 4 5 6 7 8 9 10					

128

TASK STARTUP

results in

129

TASK COMPLETION

NODE: P3/E129	TITLE: Attribute Class Diagram: TASK COMPLETION	NUMBER:
---------------	---	---------

ENTITY CLASS DEFINITION: The information about the "actual" completion of a specific task.

KEY CLASSES: Project No., Task No., Date

OWNED ATTRIBUTE CLASSES:

NAME: Date

DEFINITION:

NAME:

DEFINITION:

ENTITY CLASS DEFINITION:

The information about the "actual" completion of a specific task.

KEY CLASSES:

Project No., Task No., Date

OWNED ATTRIBUTE CLASSES:

NAME: Date

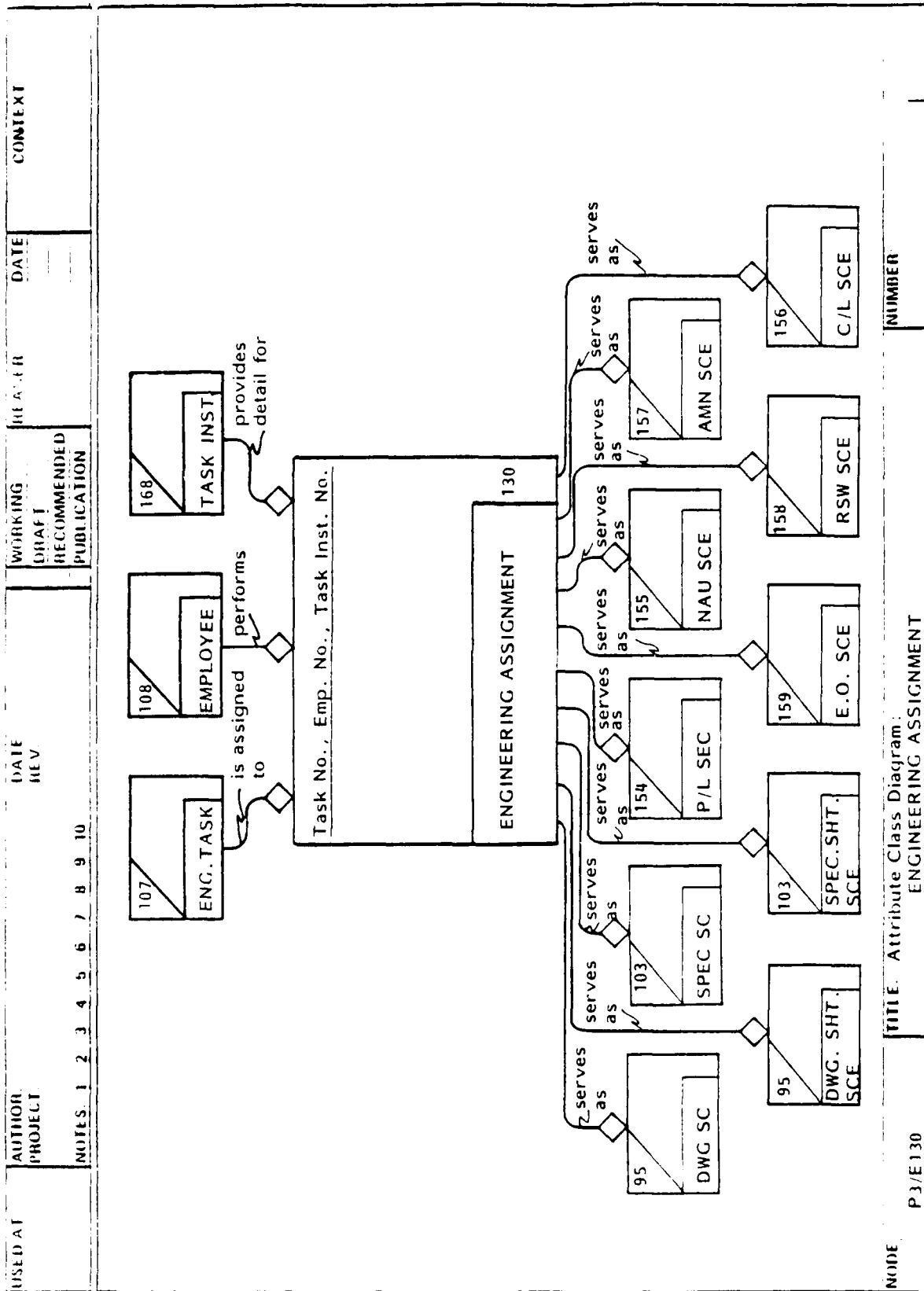
DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)		Attribute Class Owned By:		Attribute Migration Path		
		Entity Class Name		Number	Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
Proj. No. Task No.		Engineering Task Engineering Task		107 107	Task Startup Task Startup	results in results in
<div>NODE:</div> <div>DESI/E129</div>		<div>TITLE:</div> <div>GLOSSARY: TASK COMPLETION</div>		<div>NUMBER:</div> <div></div>		

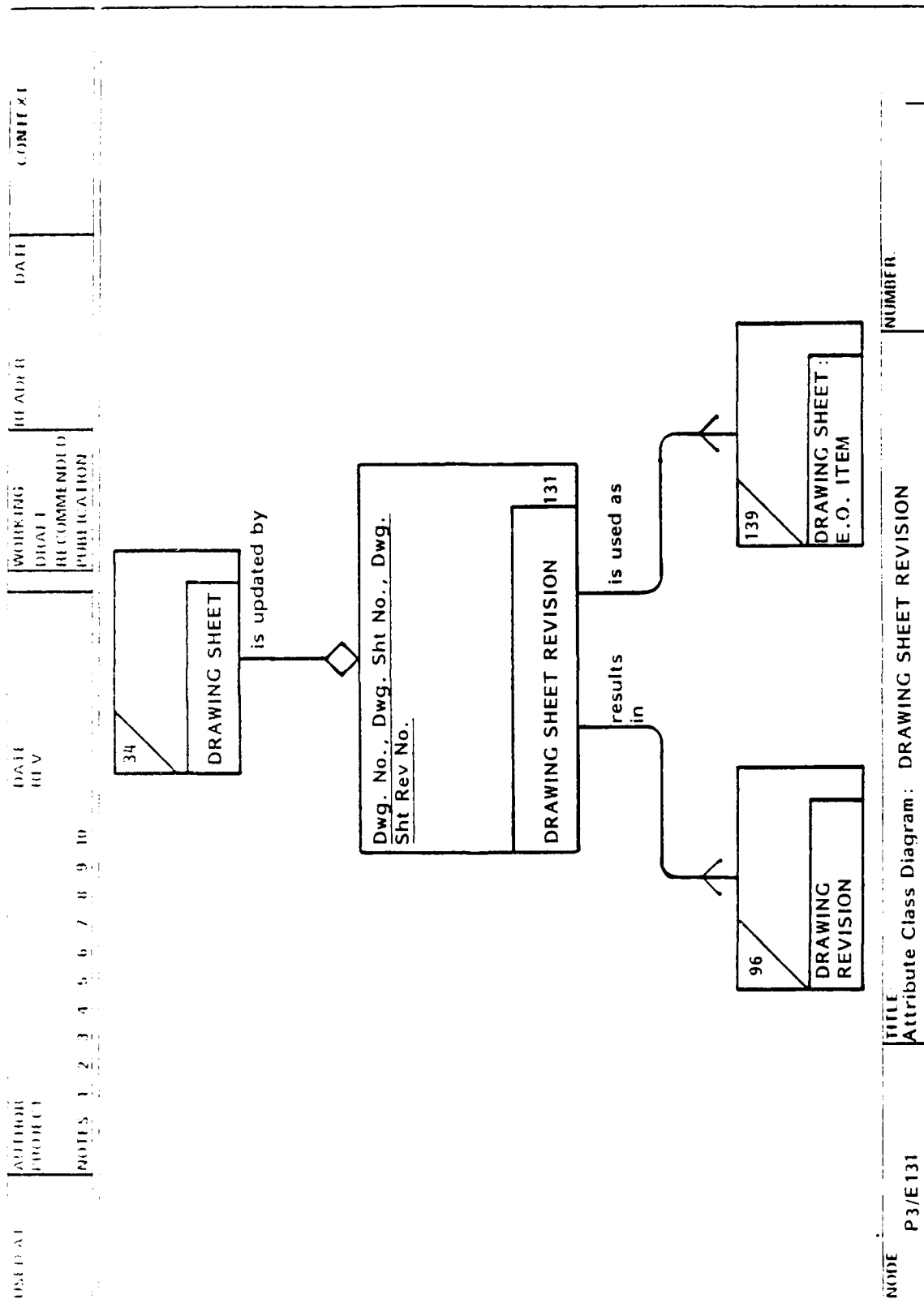
SL 252



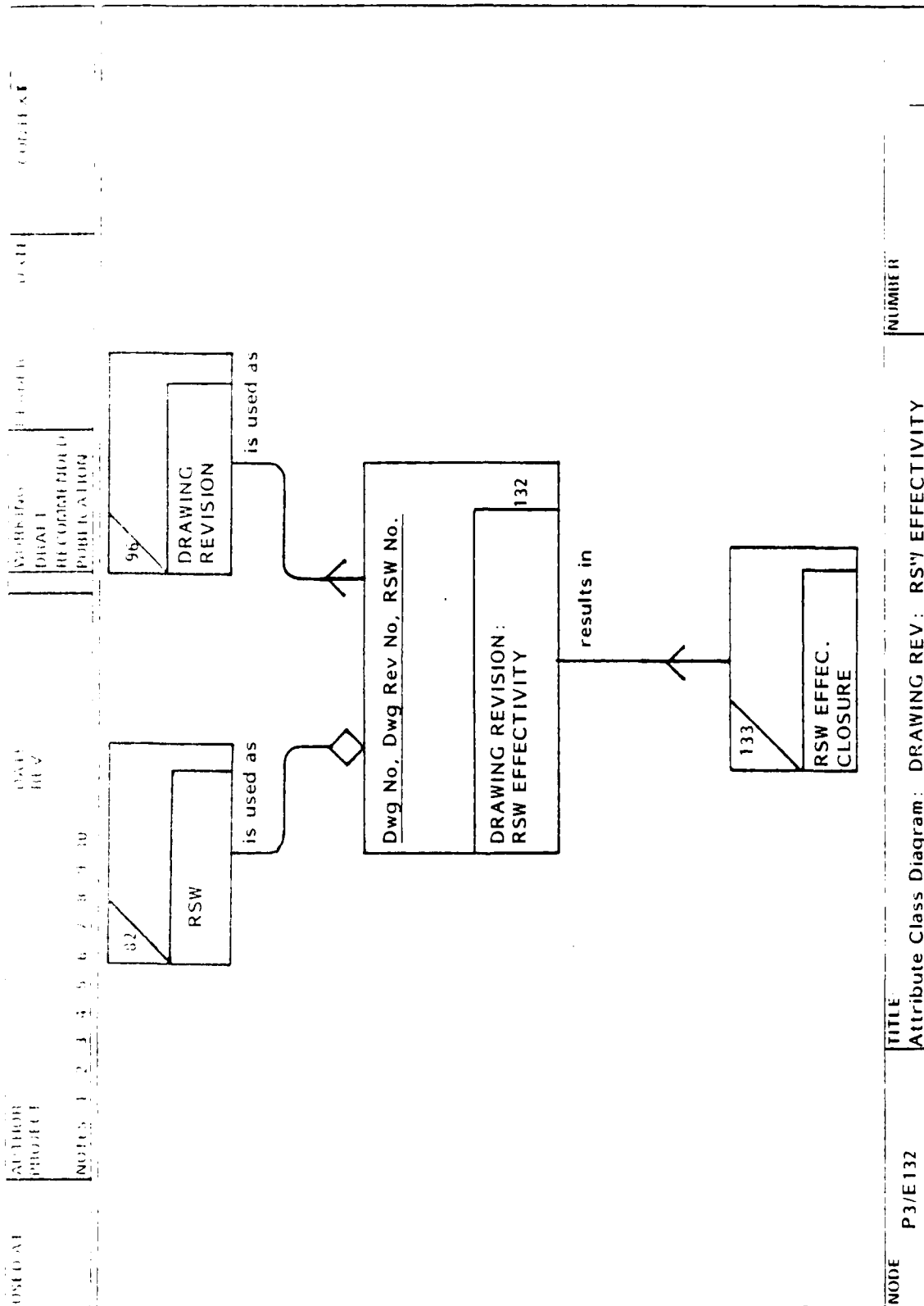
ENTITY CLASS DEFINITION: The occurrence of the Engineering Task, specifying certain activities in the creation of design data to be conducted, and the Employee, performing the activities according to instruction.			
KEY CLASSES: Task No., Employee No., Task Inst. No.			
OWNED ATTRIBUTE CLASSES:			
NAME:			
DEFINITION:			
NAME:			
DEFINITION:			

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Task No. Employee No. Task Inst. No.	Engineering Task Employee Task Inst.	107 108 168	Engineering Task Employee Task Inst.	107 108 168 is assigned to performs provides detail for

MODE: DES1/E130	TITLE: GLOSSARY: ENGINEERING ASSIGNMENT	NUMBER:
------------------------	--	----------------



ENTITY CLASS DEFINITION: The Indication and Identification of the release level (i.e., the original release and successive modification releases) of the particular sheet of a drawing. KEY CLASSES: Dwg. No., Dwg. Sheet No., Dwg. Sheet Rev. No. OWNED ATTRIBUTE CLASSES: NAME: Dwg. Sheet Rev. No. DEFINITION: NAME: DEFINITION:					
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name:
Drawing No. Drawing Sheet No.	Drawing Drawing Sheet	1 34	Drawing Sheet Drawing Sheet	34 34	Is updated by Is updated by
MODE: DESI/E131			TITLE: GLOSSARY: DRAWING SHEET REVISION		NUMBER:



ENTITY CLASS DEFINITION: Indication of the relationship between a specific drawing and a specific RSM (Recommended Stop Work) which has a bearing on the subsequent handling (i.e., update or modification, re-release, etc.) of the drawing.			
KEY CLASSES: <u>Dwg. No., Dwg. Rev. No., RSM No.</u>			
OWNED ATTRIBUTE CLASSES:			
NAME:			
DEFINITION:			
NAME:			
DEFINITION:			

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		Inherited Through: Relation Class Name
			Inherited From: Entity Class Name	Number	
RSM No. Dwg. No. Dwg. Rev. No.	Recommend Stop Work Drawing Drawing Revision	82 1 96	Recommended Stop Work Drawing Revision Drawing Revision	82 96 96	Is used as Is used as Is used as

NODE: DCS1/E132	TITLE: GLOSSARY: DRAWING REVISION: RSM EFFECTIVITY	NUMBER:
------------------------	---	----------------

USED AT		AUTHOR PROJECT		NOTES 1 2 3 4 5 6 7 8 9 10										DATE REV	WORKING DRAFT	RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <div style="border: 1px solid black; padding: 2px;">132</div> <div style="border: 1px solid black; padding: 2px;">DRAWING REV : RSW EFF</div> </div> <div style="text-align: center;"> <p>results in</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <div style="border: 1px solid black; padding: 2px;">RSW No.</div> <div style="border: 1px solid black; padding: 2px;">RECOMMENDED STOP WORK EFFECTIVITY CLOSURE</div> <div style="border: 1px solid black; padding: 2px;">133</div> </div> </div>																			
NODE: P3/E133		<div style="display: flex; justify-content: space-between;"> <div>TITLE: Attribute Class Diagram: RSW EFFECTIVITY CLOSURE</div> <div>NUMBER</div> </div>																	

<p>ENTITY CLASS DEFINITION: The indication that the referenced RSW (Recommend Stop Work) has been lifted due to the elimination of the reason for the RSW via a drawing modification, etc.</p> <p>KEY CLASSES: <u>RSW No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME:</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
RSW No.	Recommended Stop Work	82	Drawing Revision: RSW Effectivity	132 results in
<p>NODE: DES1/E133</p>		<p>TITLE: GLOSSARY: RSW EFFECTIVITY CLOSURE</p>		

S1252

USED AT	AUTHOR PROJECT	DATE REV.										WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT
		NOTES	1	2	3	4	5	6	7	8	9				
<pre> classDiagram class SPEC { 35 } class SPEC_SOURCE { 103 } class SPEC_SHEET { 134 } class SPEC_PAGE_REV { 135 } class SPEC_APPVL { 150 } SPEC --> SPEC_SOURCE : has SPEC --> SPEC_SHEET : creates SPEC --> SPEC_APPVL : approves SPEC_SHEET --> SPEC_PAGE_REV : has </pre> <p>The diagram illustrates the relationships between various specification components. A central box labeled 'SPEC SHEET' (with identifier 134) is connected to three other boxes: 'SPEC' (35), 'SPEC SOURCE' (103), and 'SPEC APPVL' (150). The 'SPEC' box has a relationship 'has' with 'SPEC SHEET'. The 'SPEC SOURCE' box has a relationship 'creates' with 'SPEC SHEET'. The 'SPEC APPVL' box has a relationship 'approves' with 'SPEC SHEET'. Additionally, 'SPEC SHEET' has a relationship 'has' with 'SPEC PAGE REV' (135).</p>															
NODE: P3/E134	TITLE: Attribute Class Diagram: SPECIFICATION SHEET										NUMBER:				

ENTITY CLASS DEFINITION: A page of a specification, carrying with it its page identification (page number) and relative pages for the entire specification (e.g., Page 2 of 10).

KEY CLASSES: Spec. No., Spec. Page No.

OWNED ATTRIBUTE CLASSES:

NAME: Spec. Page No.

DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
Spec. No.	Specification	35	Specification	35	has
NODE: DES1/E134		TITLE: GLOSSARY: SPECIFICATION SHEET			NUMBER:

2-126

USED AT	AUTHOR PROJECT	DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT
NOTES	1 2 3 4 5 6 7 8 9 10					

134
SPEC.
PAGE

has

135
SPEC. PAGE REV.

Spec. No., Spec. Page No., Spec.
Page Rev. No.

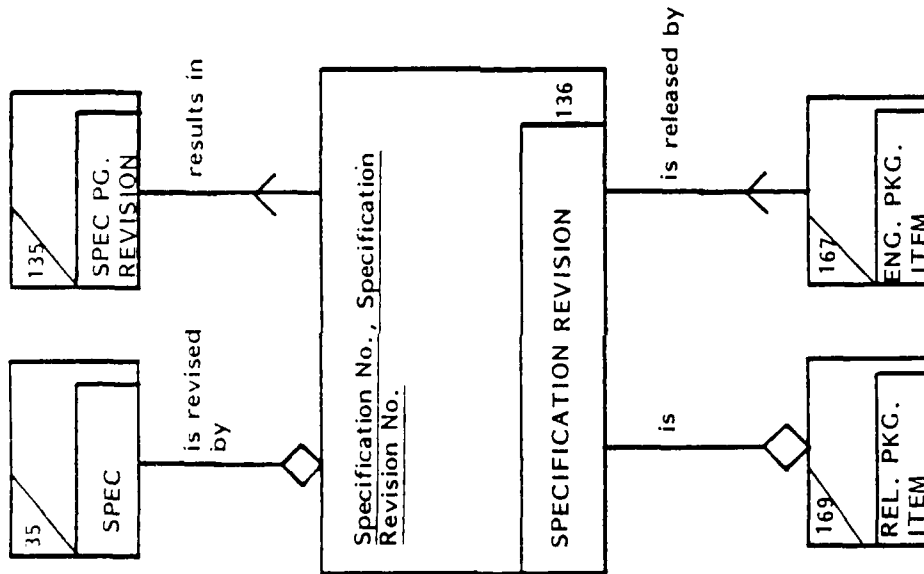
136
SPEC REV.

results in

NODE	P3/E135	TITLE: Attribute Class Diagram: SPECIFICATION SHEET REV'N	NUMBER
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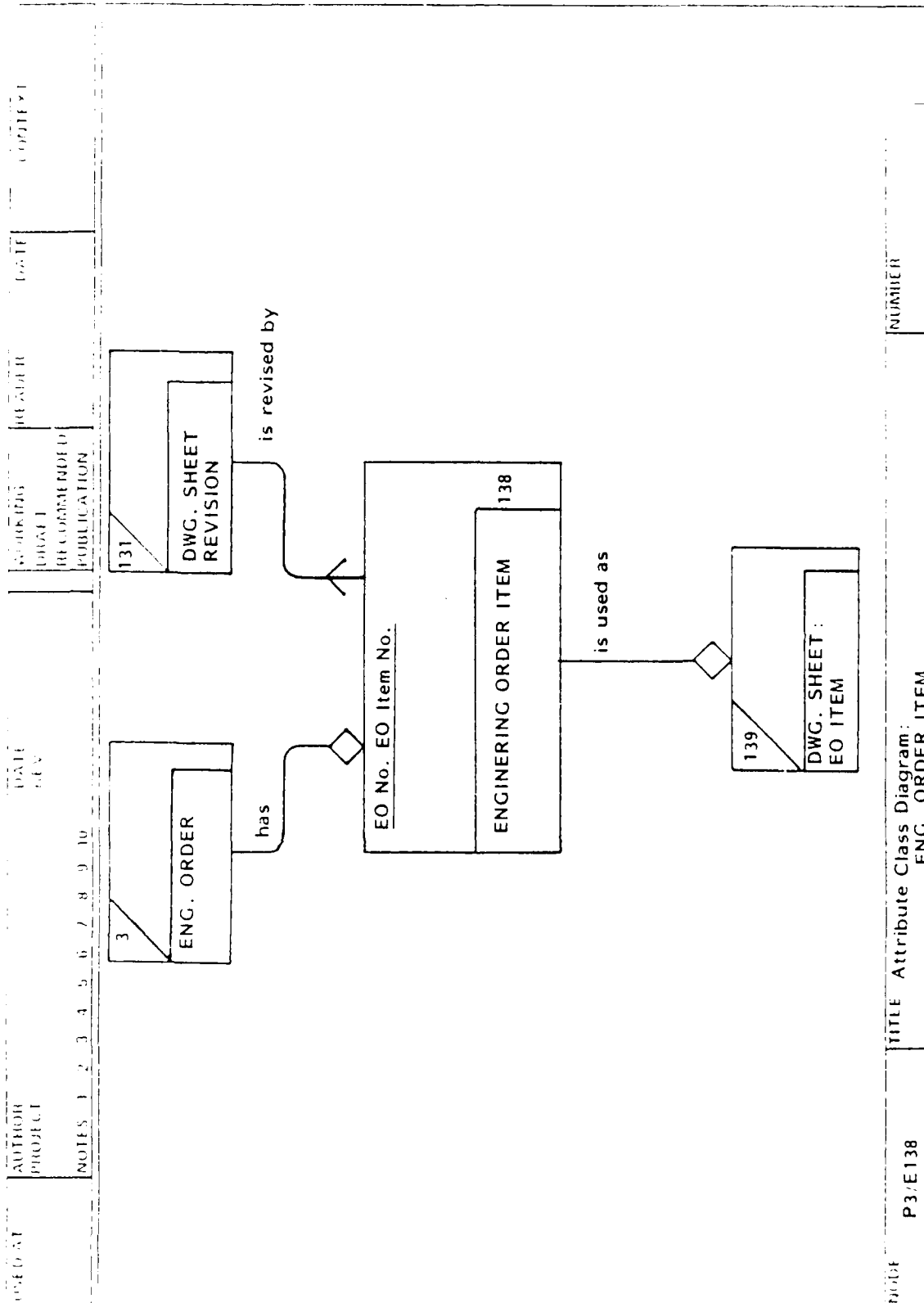
<p>ENTITY CLASS DEFINITION: The Identification and indication of the release level (i.e., the original release and successive modification releases) of the particular sheet of the Specification.</p> <p>KEY CLASSES: Spec. No., Spec. Page No., Spec. Page Rev. No.</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Spec. Page Rev. No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Spec. No. Spec. Page No.	Specification Specification Sheet	35 134	Specification Sheet Specification Sheet	134 134 has has
<p>NODE: DESI/E135</p>			<p>TITLE: GLOSSARY: SPECIFICATION SHEET REVISION</p>	
			<p>NUMBER:</p>	

USED AT		AUTHOR PROJECT		DATE REV										WORKING DRAFT		RECOMMENDED PUBLICATION		HEADER		DATE		CONTEXT	
		NOTES		1	2	3	4	5	6	7	8	9	10										



NODE: PE/E136		TITLE: Attribute Class Diagram: SPECIFICATION REVISION		NUMBER:	
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<p>ENTITY CLASS DEFINITION: The Indication and identification of the release level (i.e., the original release and successive modification releases) of the overall Specification.</p> <p>KEY CLASSES: Spec. No., Spec. Rev. No.</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Spec. Rev. No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Spec. No.	Specification	35	Specification	35 is revised by
<p>NODE: DESI/E136</p>		<p>TITLE: GLOSSARY: SPECIFICATION REVISION</p>		<p>NUMBER:</p>



<p>ENTITY CLASS DEFINITION: The chronological order and sequence of the items which appear on and make up the Order. Thus, the E.O. Item is the identification for that item on its order.</p> <p>KEY CLASSES: EO No., EO Item No.</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: EO Item No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
EO No.	Engineering Order	3	Engineering Order	has
<p>NODE: DESI/E138</p>			<p>TITLE: GLOSSARY: ENGINEERING ORDER ITEM</p>	
			<p>NUMBER:</p>	

ST 252

USED AT	AUTHOR PROJECT:	DATE REV:	DATE	READER	WORKING DRAFT RECOMMENDED PUBLICATION	CONTEXT
<div style="display: flex; justify-content: space-between;"> <div> NOTES: 1 2 3 4 5 6 7 8 9 10 </div> <div> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> 138 EO ITEM </div> <div style="margin-left: 10px;"> is used as </div> <div style="border: 1px solid black; padding: 10px; display: inline-block;"> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> Drawing No., Drawing Sheet No., EO No., EO Item No. </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> DRAWING SHEET : ENG. ORDER ITEM </div> </div> </div> </div>						
NODE P3/E139	TITLE: Attribute Class Diagram: DWC. SHEET: ENG. ORDER ITEM					NUMBER:

<p>ENTITY CLASS DEFINITION: Indication of the relationship between an exact Drawing Sheet and the specific Engineering Order which has a direct effect on the particular sheet in reference.</p> <p>KEY CLASSES: Dwg. No., Dwg. Sheet No., EO No., EO Item No.</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME:</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>					
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:	
Dwg. No. Dwg. Sheet No. EO No. EO Item No.	Drawing Sheet Drawing Sheet Engineering Order Item Engineering Order Item	1 34 3 138	Drawing Sheet Drawing Sheet Engineering Order Item Engineering Order Item	34 34 138 138	Is referenced by Is referenced by Is used as Is used as
<p>NOTE: DESI/E139</p>			<p>TITLE: GLOSSARY: DRAWING SHEET: ENGINEERING ORDER ITEM</p>		

USED AT	AUTHOR PROJECT	DATE REV	WORKING DRAFT	RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT
	NOTES 1 2 3 4 5 6 7 8 9 10						

43

ADV. MATERIAL
NOTICE

has

AMN No., AMN Item No.

141

ADVANCED MATERIAL
NOTICE ITEM

references

142

AMN ITEM
CALLOUT

references

144

AMN. ITEM
PART

NODE	PE/E141	TITLE	Attribute Class Diagram:	NUMBER
			ADVANCED MATERIAL NOTICE ITEM	

<p>ENTITY CLASS DEFINITION: The chronological order and sequence of the items which appear on and make up the order. Thus, the AMN Item number is the identification for that item on its order.</p> <p>KEY CLASSES: <u>AMN No., AMN Item No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: AMN Item No.</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
AMN No.	Advanced Material Notice	43	Advanced Material Notice	43 has
<p>MODE: DCS1/E141</p>		<p>TITLE: GLOSSARY: ADVANCED MATERIAL NOTICE ITEM</p>		<p>NUMBER:</p>

ST252

USED AT	AUTHOR: PROJECT:	DATE: REV.	NOTES: 1 2 3 4 5 6 7 8 9 10	WORKING		READER	DATE	CONTEXT
				DRAFT	RECOMMENDED			
				PUBLICATION				

19
MATERIAL SPECIFICATION

is used as

141
AMN. ITEM

AMN No., AMN Item No.
142

references

ADVANCED MATERIAL NOTICE
ITEM CALLOUT

NODE: P3/E142	TITLE: Attribute Class Diagram: ADVANCED MATERIAL NOTICE ITEM CALLOUT	NUMBER:
---------------	--	---------

<p>ENTITY CLASS DEFINITION: Occurrence of the reference of the Material Specification which details the requirements of the material for which the Notice is in effect.</p> <p>KEY CLASSES: <u>AMN Item No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME:</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
AMN Item No.	AMN Item	141	AMN Item	141 references
<p>NODE: DES1/E142</p>			<p>TITLE: GLOSSARY: ADVANCED MATERIAL NOTICE ITEM CALLOUT</p>	
			<p>NUMBER:</p>	

ST 252

USED AT	AUTHOR. PROJECT:	DATE REV.	WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
NOTES	1 2 3 4 5 6 7 8 9 10					

has

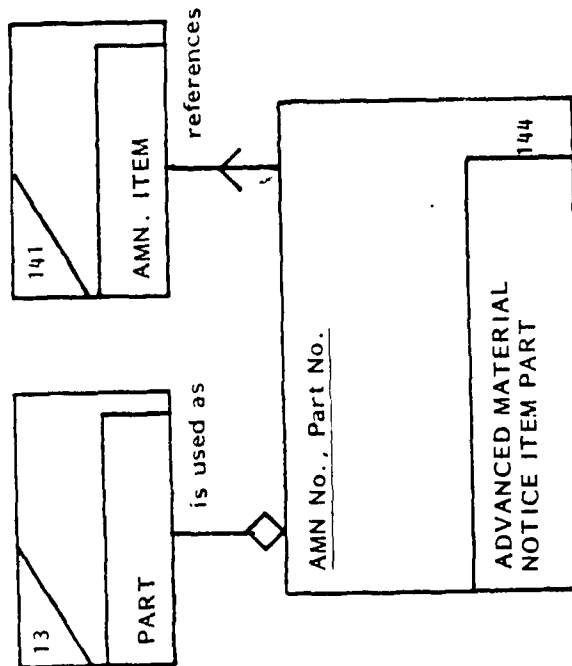
is

NODE	P3/E143	TITLE: Attribute Class Diagram: REPLACEMENT PART	NUMBER

<p>ENTITY CLASS DEFINITION: The indication of an acceptable alternative for the subject part. Also, the Replacement Part is the indication of which parts may be satisfactorily substituted for by the subject part.</p> <p>KEY CLASSES: <u>Part No., Part No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME:</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Part No. Part No.	Part Part	3 3	Part Part	has is
<p>NODE: DES1/E143</p>			<p>TITLE: GLOSSARY: REPLACEMENT PART</p>	
			<p>NUMBER:</p>	

ST 252

USED AT	AUTHOR PROJECT										DATE REV		WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
	NOTES															
	1	2	3	4	5	6	7	8	9	10						



NODE	P3 E 144	TITLE	Attribute Class Diagram	NUMBER	1
		ADVANCED MATERIAL NOTICE ITEM PART			

ENTITY CLASS DEFINITION: The occurrence of a part number as the item number reference on a particular notice.
Thus, a specific relationship between the item and the part is established.

KEY CLASSES: AMN No., Part No.

OWNED ATTRIBUTE CLASSES:

NAME:

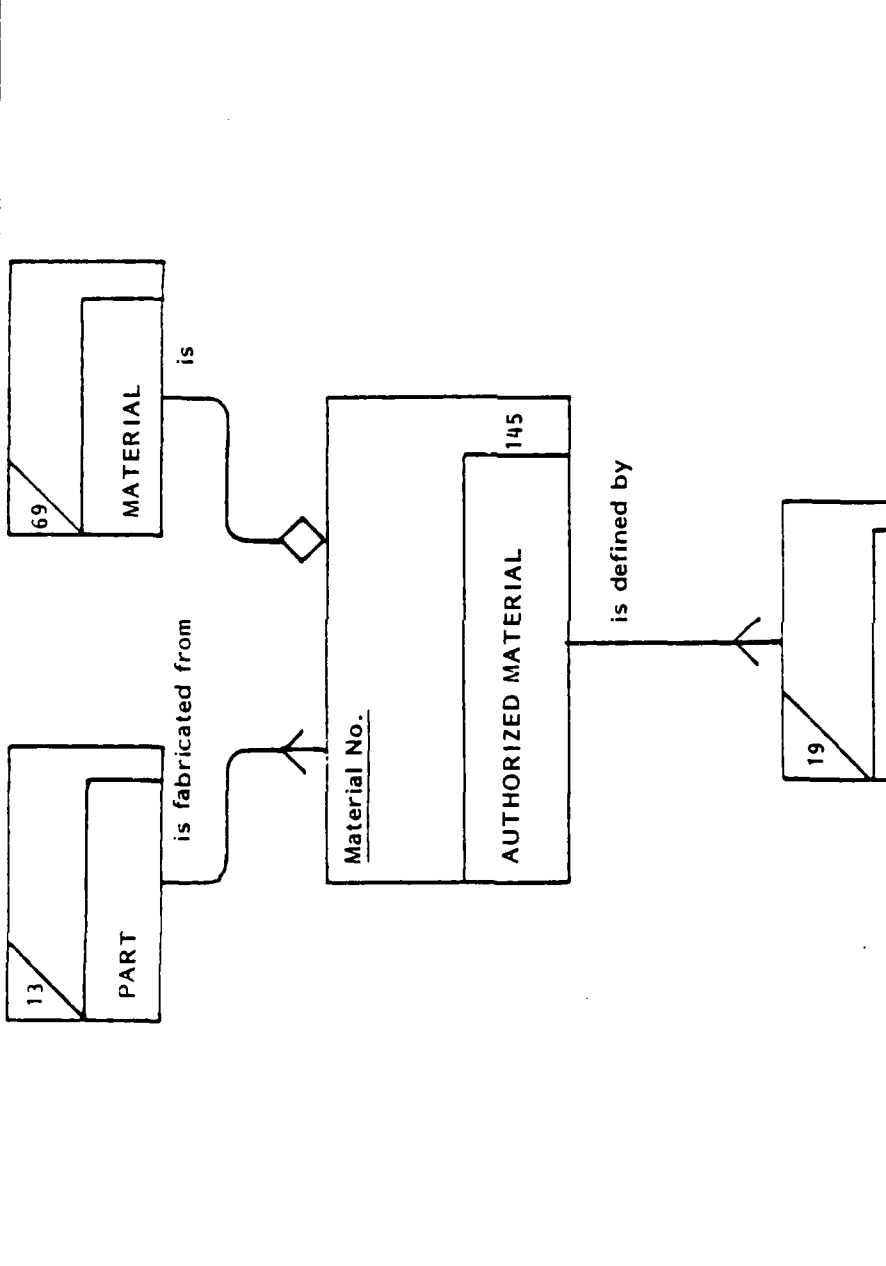
DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)		Attribute Class Owned By:		Attribute Migration Path		
		Entity Class Name	Number	Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
AMN No.		Advanced Material Notice	43	Advanced Material Notice Item	141	references
Part No.		Part	13		13	is used as
NODE		TITLE:				NUMBER:
DESI/F144		GLOSSARY: ADVANCED MATERIAL NOTICE ITEM PART				

USED AT	AUTHOR PROJECT	DATE REV	NOTES	WORKING DRAFT	RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
			1 2 3 4 5 6 7 8 9 10					



```

classDiagram
    class PART {
        13
    }
    class MATERIAL {
        69
    }
    class AUTHORIZED_MATERIAL {
        145
        Material No.
    }
    class MATERIAL_SPECIFICATION {
        19
    }
    PART --> AUTHORIZED_MATERIAL : is fabricated from
    MATERIAL --> AUTHORIZED_MATERIAL : is
    AUTHORIZED_MATERIAL --> MATERIAL_SPECIFICATION : is defined by
  
```

The diagram illustrates the relationships between four classes: PART, MATERIAL, AUTHORIZED MATERIAL, and MATERIAL SPECIFICATION. PART (13) is connected to AUTHORIZED MATERIAL (145) with the relationship "is fabricated from". MATERIAL (69) is connected to AUTHORIZED MATERIAL (145) with the relationship "is". AUTHORIZED MATERIAL (145) is connected to MATERIAL SPECIFICATION (19) with the relationship "is defined by". The AUTHORIZED MATERIAL class has an attribute "Material No.".

ENTITY CLASS DEFINITION: The occurrence of the material identification and the part number so that the exact material is referenced to the specific part.

KEY CLASSES: Material No.

OWNED ATTRIBUTE CLASSES:

NAME:

DEFINITION:

NAME:

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
Material No.	Material	69	Material	69	Is
INODE: 0851/E145	TITLE: GLOSSARY: AUTHORIZED MATERIAL				NUMBER

51252

USED AT	AUTHOR PROJECT	DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	HEADER	DATE	CONTEXT
NOTES	1 2 3 4 5 6 7 8 9 10					


```

classDiagram
    class PARTS_LIST_ITEM {
        118
    }
    class SHIP_SET {
        124
    }
    class SHIP_SET_PART_EFFECTIVITY {
        146
    }
    PARTS_LIST_ITEM --> SHIP_SET : is used as
    SHIP_SET --> SHIP_SET_PART_EFFECTIVITY : is used as
  
```

The diagram illustrates the relationships between three classes: PARTS LIST ITEM (118), SHIP SET (124), and SHIP SET: PART EFFECTIVITY (146). PARTS LIST ITEM is associated with SHIP SET via a relationship labeled "is used as". SHIP SET is associated with SHIP SET: PART EFFECTIVITY via a relationship labeled "is used as".

SHIP SET: PART EFFECTIVITY

Configuration No., Model No.,
Part No., P/L Item No.

SHIP SET: PART EFFECTIVITY

146

<p>ENTITY CLASS DEFINITION: The indication of a specific relationship between a parts list item and a ship set configuration.</p> <p>KEY CLASSES: Config. No., Model No., Part No., P/L Item No.</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME:</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>					
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
P/L No. P/L Item No. Config. No. Model No.	Parts List Parts List Item Ship Set Model/End Item	37 118 124 98	Parts List Item Parts List Item Ship Set Ship Set	118 118 124 124	is used as is used as is used as is used as
<p>MODE: NESI/E146</p> <p>TITLE: GLOSSARY: SHIP SET: PART EFFECTIVITY</p>	<p>NUMBER:</p>				

USED AT		AUTHOR PROJECT		DATE REV										WORKING DRAFT RECOMMENDED PUBLICATION		READER		DATE		CONTEXT	
		NOTES		1	2	3	4	5	6	7	8	9	10								

35

SPECIFICATION

is approved by

88

APPROVAL AUTHORITY

is applied to

Specification No., Approval Code

SPECIFICATION APPROVAL

NODE P3/E150	TITLE: Attribute Class Diagram: SPECIFICATION APPROVAL	NUMBER
--------------	---	--------

<p>ENTITY CLASS DEFINITION: The indication that an authorized approval has acknowledged that the specification conforms to the requirements of the task and procedure under which it was originated.</p> <p>KEY CLASSES: <u>Spec. No., Appvl. Code</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Employee No. NAME: Approval Date</p> <p>DEFINITION: NAME: Status</p> <p>NAME: Description NAME: Notes</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Spec. No. Approval Code	Specification Approval Authority	35 88	Specification Approval Authority	35 88 Is approved by Is applied to
<p>NOTE: DX 51/E150</p>			<p>TITLE: GLOSSARY: SPECIFICATION APPROVAL</p> <p>NUMBER:</p>	

USED AT AUTHOR PROJECT:	DATE REV.										WORKING DRAFT RECOMMENDED PUBLICATION		READER	DATE	CONTEXT
	NOTES 1 2 3 4 5 6 7 8 9 10														

1

DRAWING

is approved by

88

APPROVAL
AUTHORITY

Drawing No., Approval Code

DRAWING APPROVAL

is applied to

151

DRAWING APPROVAL

<p>ENTITY CLASS DEFINITION: The indication that an authorized approval has acknowledged that the drawing conforms to the requirements of the task and procedure under which it was originated.</p> <p>KEY CLASSES: <u>Dwg. No.</u>, <u>Appvl. Code</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Employee No. NAME: Approval Date</p> <p>DEFINITION: NAME: Status</p> <p>NAME: Description NAME: Notes</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
Drawing No. Approval Code	Drawing Approval Authority	1 88	Inherited From: Entity Class Name	Inherited Through: Relation Class Name
			Drawing Approval Authority	is approved by is applied to
NOTE:	TITLE:	NUMBER:		
OF S1/E151	GLOSSARY: DRAWING APPROVAL			

DATED AT AUTHOR PROJECT NOTES 1 2 3 4 5 6 7 8 9 10	DATE REV 1 2 3 4 5 6 7 8 9 10	WORKING DRAFT RECOMMENDED PUBLICATION	READER DATE DATE	CONTEXT
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28
 ENGINEERING
 RELEASE

is approved by

88
 APPROVAL
 AUTHORITY

28
 ENGINEERING
 RELEASE

is applied to

152
 ENGINEERING RELEASE
 APPROVAL

E.R. No., Approval Code

ENTITY CLASS DEFINITION: The indication that an authorized approval has acknowledged that the contents of the release package are in keeping with the tasks and procedures which govern their organization and that the appropriate task and procedure have been complied with in preparing for the release.

KEY CLASSES: ER No., Appvl. Code

OWNED ATTRIBUTE CLASSES:

NAME: Employee No.

NAME: Approval Date

DEFINITION:

NAME: Status

NAME: Description

NAME: Notes

DEFINITION:

Inherited Attribute Class(es)		Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
				Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
ER No. Appvl. Code		Engineering Release Approval Authority	28 88	Engineering Release Approval Authority	28 88	Is approved by Is applied to
MODE: DF51/E152	TITLE:	GLOSSARY: ENGINEERING RELEASE APPROVAL				NUMBER:

ST 152

USED AT	AUTHOR PROJECT	DATE REV										WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
		NOTES	1	2	3	4	5	6	7	8	9				
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <div style="border-bottom: 1px solid black; width: 100%;">34</div> <div style="border: 1px solid black; padding: 2px;">DRAWING SHEET</div> </div> <div style="text-align: center;">is approved by</div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <div style="border-bottom: 1px solid black; width: 100%;">88</div> <div style="border: 1px solid black; padding: 2px;">APPROVAL AUTHORITY</div> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">is applied to</div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <div style="border-bottom: 1px solid black; width: 100%;">Drawing Sheet No., Approval Code</div> <div style="border: 1px solid black; padding: 5px;">DRAWING SHEET APPROVAL 153</div> </div> </div>															

NODE P3/E153	TITLE Attribute Class Diagram: DRAWING SHEET APPROVAL	NUMBER
-----------------	---	--------

ENTITY CLASS DEFINITION: The indication that an authorized approval has acknowledged that the Drawing Sheet conforms to the requirements of the task and procedure under which it was originated.					
KEY CLASSES: <u>Drawing Sheet No., Approval Code</u>					
OWNED ATTRIBUTE CLASSES:					
NAME: Employee No.		NAME: Approval Date			
DEFINITION:		NAME: Status			
NAME: Description		NAME: Notes			
DEFINITION:					
Inherited Attribute Class(es)		Attribute Class Owned By:		Attribute Migration Path	
Entity Class Name		Entity Class Name		Inherited From:	Inherited Through:
Entity Class Name		Entity Class Name		Entity Class Name	Relation Class Name
Drawing Sheet No. Approval Code	Drawing Sheet Approval Authority	Drawing Sheet Approval Authority	Drawing Sheet Approval Authority	34 88	34 88
Is approved by Is applied by					
NUMBER:		NUMBER:			
CODE: D/S1/E153		TITLE: GLOSSARY: DRAWING SHEET APPROVAL			

SI 252

USED AT	AUTHOR PROJECT	DATE REV.	NOTES	1	2	3	4	5	6	7	8	9	10	WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT


```

classDiagram
    class ENG_ASSIGNMENT["ENG. ASSIGNMENT"] {
        130
    }
    class PARTS_LIST_SOURCE["PARTS LIST SOURCE"] {
        154
        "Parts List Source ID"
    }
    class PARTS_LIST["PARTS LIST"] {
        37
    }
    ENG_ASSIGNMENT --|> PARTS_LIST_SOURCE : serves as
    PARTS_LIST_SOURCE --|> PARTS_LIST : creates
        
```

The diagram illustrates the following structure:

- ENG. ASSIGNMENT** (ID 130) is a generalization of **PARTS LIST SOURCE** (ID 154), indicated by a solid line with an open diamond at the **PARTS LIST SOURCE** end and the label "serves as".
- PARTS LIST SOURCE** (ID 154) is a generalization of **PARTS LIST** (ID 37), indicated by a solid line with an open diamond at the **PARTS LIST** end and the label "creates".
- The **PARTS LIST SOURCE** class has an attribute Parts List Source ID.

NODE P3/E154 TITLE: Attribute Class Diagram: PARTS LIST SOURCE NUMBER

ENTITY CLASS DEFINITION: The occurrence of the effort of creating a Parts List in conjunction with the Engineering Assignment, through which the employee creates the information according to the task and procedure at hand.

KEY CLASSES: Parts List Source ID

OWNED ATTRIBUTE CLASSES:

NAME: Parts List Source ID

DEFINITION:

NAME: Task Description

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name;
Task No.	Engineering Task	107	Engineering Assignment	130	serves as
NOTE: DESI/E154			TITLE: GLOSSARY: PARTS LIST SOURCE		NUMBER:

USED AT		AUTHOR PROJECT		DATE REV										WORKING		READER		DATE		CONTEXT	
				NOTES	1	2	3	4	5	6	7	8	9	10	DRAFT	RECOMMENDED					

130

ENG.
ASSIGNMENT

serves as

Next Assembly Use Source ID

NEXT ASSEMBLY USAGE
SOURCE

40

NEXT ASSY
USAGE

creates

Next Assembly Use Source ID

NEXT ASSEMBLY USAGE
SOURCE

NOTE	P3/E155	TITLE	Attributes Class Diagram:	NUMBER
			NEXT ASSEMBLY USAGE SOURCE	

<p>ENTITY CLASS DEFINITION: The occurrence of the effort of creating the Next Assembly Usage in conjunction with the Engineering Assignment, through which an Employee originates the information according to the task and procedure at hand.</p> <p>KEY CLASSES: <u>Next Ass'y. Usage Source ID</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Next Ass'y. Usage Source ID</p> <p>DEFINITION:</p> <p>NAME: Task Description</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Task No.	Engineering Task	107	Engineering Assignment	130 serves as
<p>NODE: DF51/E155</p>			<p>TITLE: GLOSSARY: NEXT ASSEMBLY USAGE SOURCE</p>	

5122

USED AT	AUTHOR		DATE		WORKING		HEADER		DATE		CONTEXT	
	OBJECT		REV.		DRAFT		RECOMMENDED					
NOTES			1	2	3	4	5	6	7	8	9	10


```

classDiagram
    class EngAssignment["ENG. ASSIGNMENT"] {
        130
    }
    class ConfigListSourceID["Configuration List Source ID"] {
        156
    }
    class ConfigListSource["CONFIGURATION LIST SOURCE"] {
        156
    }
    class ConfigNList["CONFIG'N. LIST"] {
        84
    }
    EngAssignment --> ConfigListSourceID : serves as
    ConfigListSourceID --> ConfigListSource : 156
    ConfigListSource --> ConfigNList : creates
  
```

The diagram illustrates the relationships between four classes: **ENG. ASSIGNMENT** (ID 130), **Configuration List Source ID** (ID 156), **CONFIGURATION LIST SOURCE** (ID 156), and **CONFIG'N. LIST** (ID 84). **ENG. ASSIGNMENT** serves as **Configuration List Source ID**. **Configuration List Source ID** is associated with **CONFIGURATION LIST SOURCE**. **CONFIGURATION LIST SOURCE** creates **CONFIG'N. LIST**.

NOTE	P3/E156	TITLE		Attributes Class Diagram:		NUMBER	
				CONFIGURATION LIST SOURCE			

ENTITY CLASS DEFINITION: The occurrence of the effort of creating a Configuration List in conjunction with the Engineering Assignment, through which an Employee originates the information according to the task and procedure at hand.

KEY CLASSES: Config. List Source ID

OWNED ATTRIBUTE CLASSES:

NAME: Config. List Source ID

DEFINITION:

NAME: Task Description

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
Task No.	Engineering Task	107	Engineering Assignment	130	serves as
NOTE:	IR 51/E156	TITLE: GLOSSARY: CONFIGURATION LIST SOURCE			NUMBER:

USED AT		AUTHOR PROJECT										DATE REV		WORKING DRAFT RECOMMENDED PUBLICATION		READER		DATE		CONTEXT											
		NOTES	1	2	3	4	5	6	7	8	9	10																			
		<pre> classDiagram class ENG_ASSIGNMENT["ENG. ASSIGNMENT"] { 130 } class ADV_SOURCE["ADVANCE MATERIAL NOTICE SOURCE"] { 157 } class ADV_NOTICE["ADV. MAT'L NOTICE"] { 43 } ENG_ASSIGNMENT --> ADV_SOURCE : serves as ADV_SOURCE --> ADV_NOTICE : creates </pre>																													
NODE		P3/E157										TITLE Attribute Class Diagrams: ADVANCE MATERIAL NOTICE SOURCE										NUMBER									

ENTITY CLASS DEFINITION: The occurrence of the effort of creating an Advanced Material Notice in conjunction with the Engineering Assignment, through which an Employee originates the information according to the task and procedure at hand. KEY CLASSES: <u>Advanced Material Notice Source ID</u> OWNED ATTRIBUTE CLASSES: NAME: Advanced Material Notice Source ID DEFINITION: NAME: Task Description DEFINITION:				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Task No.	Engineering Task	107	Engineering Assignment	130 serves as
NODE: DES1/E157	TITLE: GLOSSARY: ADVANCED MATERIAL NOTICE SOURCE			NUMBER:

51252

USED AT	AUTHOR: PROJECT:	DATE: REV:	NOTES: 1 2 3 4 5 6 7 8 9 10	WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT


```

classDiagram
    class "130" {
        ENG. ASSIGNMENT
    }
    class "82" {
        RSW
    }
    class "RSW Source ID" {
        <u>RSW Source ID</u>
    }
    class "RSW (STOP WORK) SOURCE" {
        158
    }

    "130" --> "RSW Source ID" : serves as
    "82" --> "RSW (STOP WORK) SOURCE" : creates
    
```

The diagram illustrates the relationships between three entities: '130' (containing 'ENG. ASSIGNMENT'), '82' (containing 'RSW'), and two source classes. '130' is connected to 'RSW Source ID' with the relationship 'serves as'. '82' is connected to 'RSW (STOP WORK) SOURCE' with the relationship 'creates'. The 'RSW Source ID' class has a primary key 'RSW Source ID'. The 'RSW (STOP WORK) SOURCE' class has a value '158'.

NODE	P3/E158	TITLE: Attribute Class Diagram: RSW (STOP WORK) SOURCE	NUMBER
------	---------	---	--------

ENTITY CLASS DEFINITION: The occurrence of the effort of creating an RSW in conjunction with the Engineering Assignment, through which an Employee originates the information in accordance with the task and procedure at hand.

KEY CLASSES: RSW Source ID

OWNED ATTRIBUTE CLASSES:

NAME: RSW Source ID

DEFINITION:

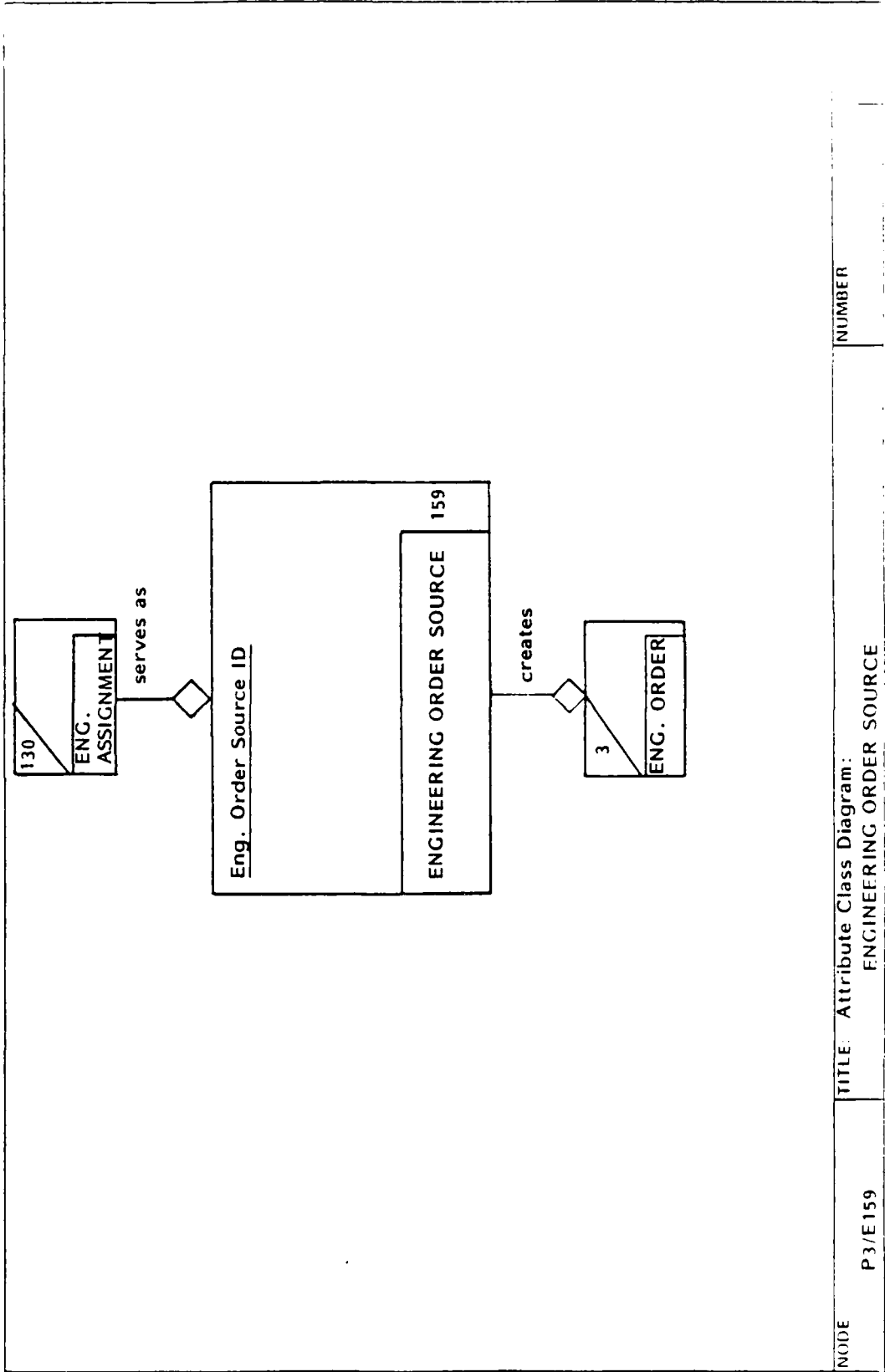
NAME: Task Description

DEFINITION:

		Attribute Migration Path		
		Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number		
Task No.	Engineering Task	107	Engineering Assignment	130 serves as
NODE: DESI/E158	TITLE:	NUMBER:		
		GLOSSARY: RSW (STOP WORK) SOURCE		

S1252

USED AT	AUTHOR: PROJECT:	DATE REV	WORKING DRAFT	RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
	NOTES: 1 2 3 4 5 6 7 8 9 10						



NUMBER	TITLE: Attribute Class Diagram:	ENGINEERING ORDER SOURCE
	P3/E159	

ENTITY CLASS DEFINITION: The occurrence of the effort of creating an Engineering Order in conjunction with the Engineering Assignment, through which an Employee originates the information in accordance with the task and procedure at hand.				
KEY CLASS'S: Eng. Order Source ID				
OWNED ATTRIBUTE CLASSES:				
NAME: Eng. Order Source ID				
DEFINITION:				
NAME: Task Description				
DEFINITION:				

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		Inherited Through: Relation Class Name:
			Inherited From: Entity Class Name	Number	
Task No.	Engineering Task	107	Engineering Assignment	130	serves as

NODE: DES1/E159	TITLE: GLOSSARY: ENGINEERING ORDER SOURCE	NUMBER:
------------------------	--	----------------

SI 152

USED AT	AUTHOR PROJECT	DATE REV:	WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
NOTES: 1 2 3 4 5 6 7 8 9 10						

37
PARTS LIST

is approved by

88
APPROVAL
AUTHORITY

is applied to

P/L No., Approval Code
160

PART LIST APPROVAL

ENTITY CLASS DEFINITION: The indication that an authorized approval has acknowledged that the Parts List conforms to the requirements of the task and procedure under which it was originated.

KEY CLASSES: P/L No., Appvl. Code

OWNED ATTRIBUTE CLASSES:

NAME: Employee No.

NAME: Approval Date

DEFINITION:

NAME: Status

NAME: Description

NAME: Notes

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Parts List No. Approval Code	Parts List Approval Authority	37 88	Parts List Approval Authority	Is approved by Is applied to
TITLE:		NUMBER:		
DES/E160		GLOSSARY: PARTS LIST APPROVAL		

ST 252

USED AT	AUTHOR: PROJECT:	DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	READER	DATE	CONTEXT
NOTES 1 2 3 4 5 6 7 8 9 10						


```

classDiagram
    class NextAssemblyUsage {
        40
    }
    class ApprovalAuthority {
        88
    }
    class NextAssemblyUsageNoApprovalCode {
        161
        Next Assembly Usage No., Approval Code
    }
    NextAssemblyUsage --> NextAssemblyUsageNoApprovalCode : is approved by
    ApprovalAuthority --> NextAssemblyUsageNoApprovalCode : is applied to
    class NextAssemblyUsageApproval {
        NEXT ASSEMBLY USAGE APPROVAL
    }
    NextAssemblyUsageNoApprovalCode -- NextAssemblyUsageApproval

```

<p>ENTITY CLASS DEFINITION: The indication that an authorized approval has acknowledged that the Next Assembly Usage conforms to the requirements of the task and procedure under which it was originated.</p> <p>KEY CLASSES: NAU No., Appvl. Code</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: NAU No. NAME: Description</p> <p>DEFINITION: NAME: Approval Date</p> <p>NAME: Employee No. NAME: Status</p> <p>DEFINITION: NAME: Notes</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Approval Code	Approval Authority	88	Approval Authority	88 is applied to
NODE: DFS1/E161		TITLE: GLOSSARY: NEXT ASSEMBLY USAGE APPROVAL		NUMBER:

USED AT PROJECT	AUTHOR PROJECT	DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	READER DATE	CONTEXT
NOTES 1 2 3 4 5 6 7 8 9 10					

134
 SPEC PAGE

is approved by

88
 APPROVAL
 AUTHORITY

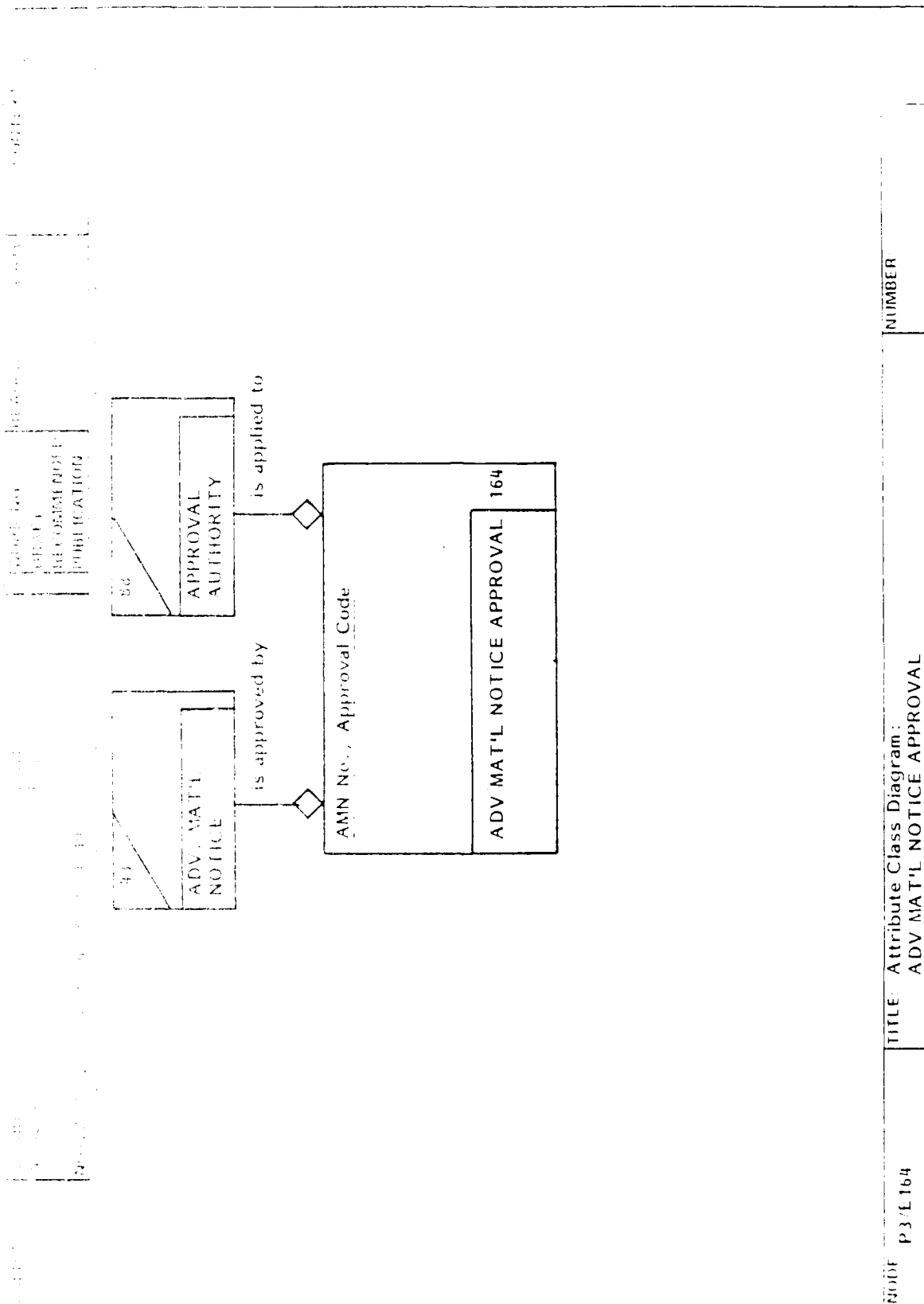
163
 SPEC. PG. APPROVAL

is applied to

Spec Pg No., Approval Code

NODE P3/E163	TITLE: Attribute Class Diagram: SPECIFICATION PAGE APPROVAL	NUMBER
--------------	--	--------

ENTITY CLASS DEFINITION: The indication that an authorized approval has acknowledged that the Specification Sheet conforms to the requirements of the task and procedure under which it was originated.			
KEY CLASSES: Spec. Page No., Appvl. Code			
OWNED ATTRIBUTE CLASSES:			
NAME: Employee No.		NAME: Approval Date	
DEFINITION:		NAME: Status	
NAME: Description		NAME: Notes	
DEFINITION:			
Inherited Attribute Class(es)		Attribute Migration Path	
Attribute Class Owned By: Entity Class Name		Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Spec. Page No. Approval Code		Specification Sheet Approval Authority	Is approved by Is applied to
134 88		134 88	134 88
NOTE:		NUMBER:	
DS1/E163		GLOSSARY: SPECIFICATION PAGE APPROVAL	



<p>ENTITY CLASS DEFINITION: The indication that an authorized approval has acknowledged that the Advanced Material Notice conforms to the requirements of the task and procedure under which it was originated.</p> <p>KEY CLASSES: AMN No., Approval Code</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Employee No. NAME: Approval Date</p> <p>DEFINITION: NAME: Status</p> <p>NAME: Description NAME: Notes</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
AMN No. Approval Code	Advanced Material Notice Approval Authority	43 88	Advanced Material Notice Approval Authority	43 88 Is approved by is applied to
<p>NOTE: DESI/E164</p>		<p>TITLE: GLOSSARY: ADVANCED MATERIAL NOTICE APPROVAL</p>		<p>NUMBER:</p>

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION
3		
4		
5		
6		
7		
8		
9		

REVISION	DATE	DESCRIPTION
1		INITIAL DRAFT
2		RECOMMENDED FOR PUBLICATION

ENTITY CLASS DEFINITION: The indication that the authorized approval has acknowledged that the ASW conforms to the requirements of the task and procedure under which it was originated.

KEY CLASSES: RSW No., Appvl. Code

OWNED ATTRIBUTE CLASSES:

NAME:	Employee No.
NAME:	Approval Date

DEFINITION:

NAME:	Description	NAME:	Notes
-------	-------------	-------	-------

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
RSW No. Approval Code	Request Stop Work Approval Authority	82 88	Request Stop Work Approval Authority	82 88	Is approved by Is applied to

NODE: 0E51/E165

TITLE: GLOSSARY: RSW (STOP WORK) APPROVAL

NUMBER:

USE CAT	AUTHOR PROJECT	NOTES										DATE REV	WORKING DRAFT RECOMMENDED PUBLICATION	LEADER	DATE	COMMENT	
		1	2	3	4	5	6	7	8	9	10						

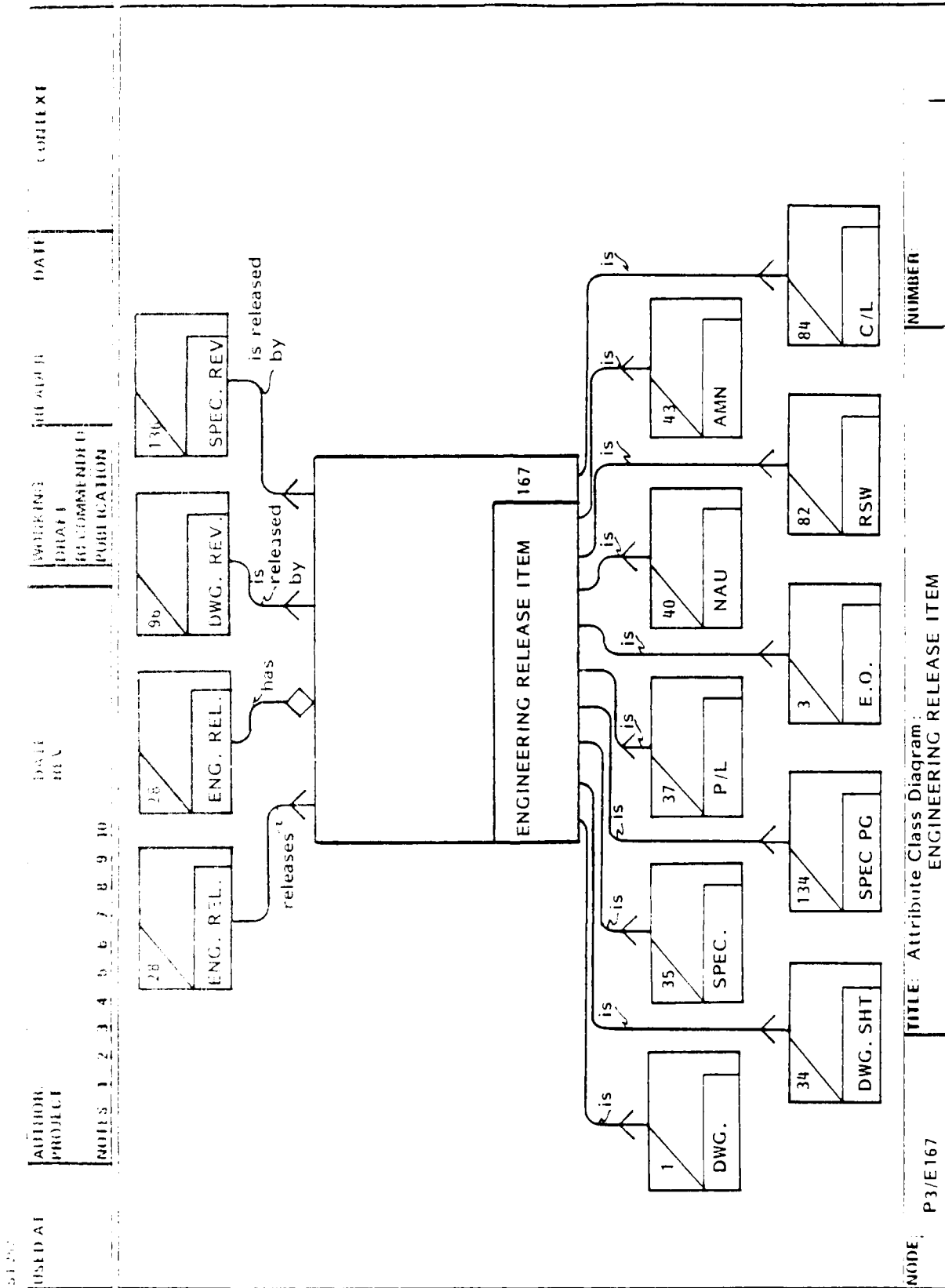

```

classDiagram
    class ENC_ORDER["ENC. ORDER"] {
        3
    }
    class APPROVAL_AUTHORITY["APPROVAL AUTHORITY"] {
        38
    }
    class EONAC["E.O. No., Approval Code"] {
        166
    }
    ENC_ORDER --> EONAC : is approved by
    APPROVAL_AUTHORITY --> EONAC : is applied to
  
```

The diagram illustrates the relationships between three entities: ENC. ORDER, APPROVAL AUTHORITY, and E.O. No., Approval Code. ENC. ORDER (with attribute 3) is connected to E.O. No., Approval Code (with attribute 166) via the relationship "is approved by". APPROVAL AUTHORITY (with attribute 38) is connected to E.O. No., Approval Code via the relationship "is applied to".

NODE	P3/E166	TITLE	Attribute Class Diagram: ENC'G ORDER APPROVAL	NUMBER

<p>ENTITY CLASS DEFINITION: The indication that an authorized approval has acknowledged that the Engineering Order conforms to the requirements of the task and procedure under which it was originated.</p> <p>KEY CLASSES: EO No., Appvl. Code</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Employee No. NAME: Approval Date</p> <p>DEFINITION: NAME: Status</p> <p>NAME: Description NAME: Notes</p> <p>DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
EO No. Approval Code	Engineering Order Approval Authority	3 88	Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
			Engineering Order Approval Authority	Is approved by is applied to
NODE: DES1/E166	TITLE: GLOSSARY: ENGINEERING ORDER APPROVAL		NUMBER:	



ENTITY CLASS DEFINITION: The chronological and sequence order of the items which appear on and constitute the Engineering Release. Thus, the ER Item number serves as the identification for that item as it appears on the release.

KEY CLASSES: ER No., ER Item No.

OWNED ATTRIBUTE CLASSES:

NAME: ER Item No.

NAME: ER Item Title

DEFINITION:

NAME: ER Title/Description

DEFINITION:

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
ER No. Drawing No. Drawing Rev. No. Spec. No. Spec. Rev. No.	Engineering Release Drawing Drawing Revision Specification Specification Revision	28 1 96 35 136	Engineering Release Drawing Revision Drawing Revision Specification Revision Specification Revision	28 96 96 136 136	has is released by is released by is released by is released by
NOTE: DF51/E167			TITLE: GLOSSARY: ENGINEERING RELEASE ITEM		NUMBER:

USED AT	AUTHOR PROJECT										DATE		HEADLINE		CONTEXT	
	NOTES 1 2 3 4 5 6 7 8 9 10										GROUPING SUBJECT RECOMMENDED PUBLICATION					

107

ENG TASK

contains

Proj No., Task No., Task Inst. No.

TASK INSTRUCTION

168

provides detail for

130

ENG. ASSIGN'T

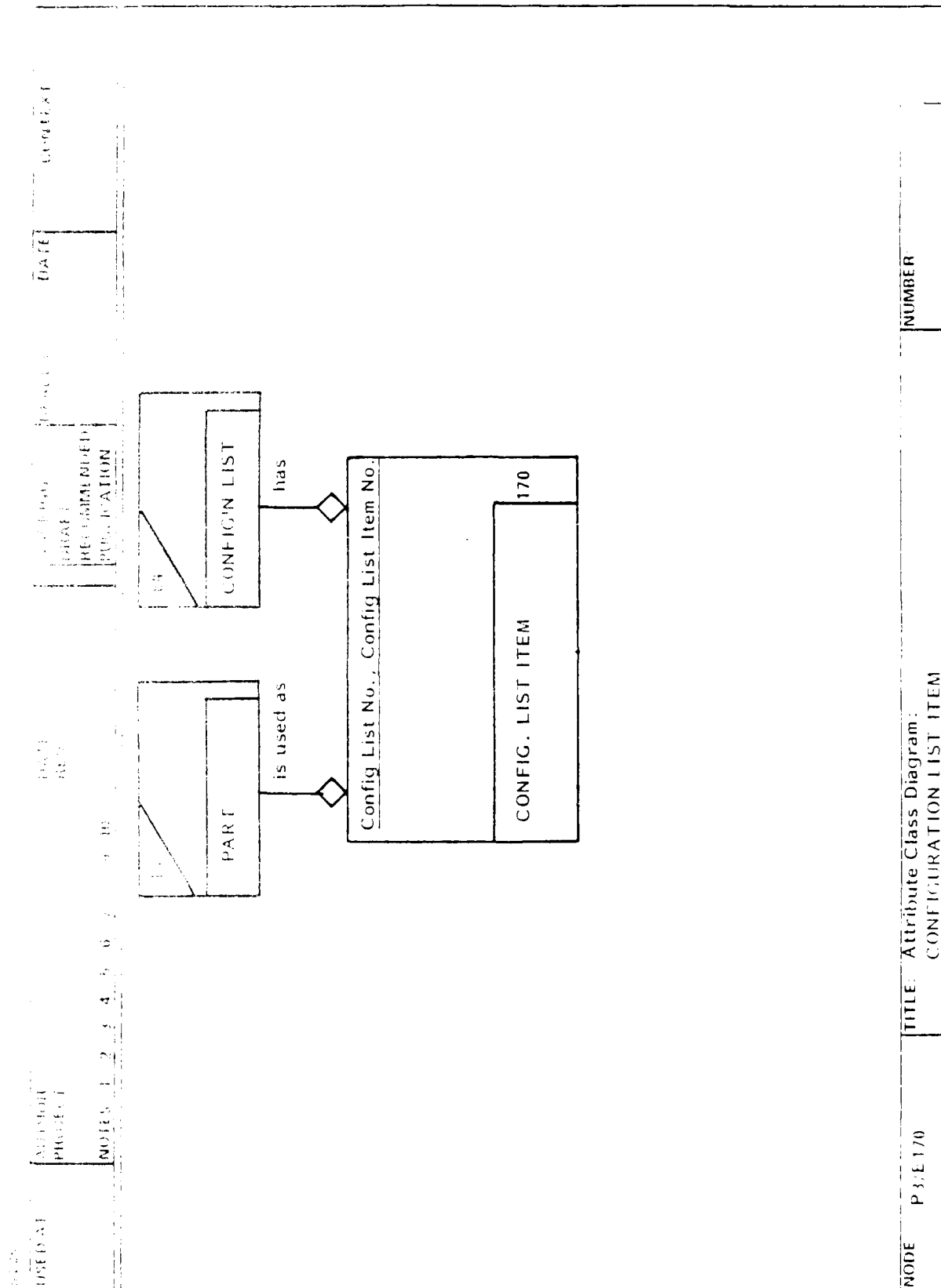
NODE: P3/E168	TITLE: Attribute Class Diagram: TASK INSTRUCTION	NUMBER
---------------	---	--------

<p>ENTITY CLASS DEFINITION: The information about the unit of work which will effect the creation of a discrete portion of design data. The instruction details what is to be designed, how it is to be designed, and the guidelines (standards, procedures, etc.) to be used as reference.</p> <p>KEY CLASSES: <u>Proj. No., Task No., Task Inst. No.</u></p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Task Inst. No</p> <p>DEFINITION:</p> <p>NAME:</p> <p>DEFINITION:</p>				
<p>Inherited Attribute Class(es)</p> <p>Proj. No. Task No.</p>	<p>Attribute Class Owned By:</p> <p>Entity Class Name</p> <p>Engineering Task Engineering Task</p>	<p>Number</p> <p>107 107</p>	<p>Attribute Migration Path</p>	
			<p>Inherited From:</p> <p>Entity Class Name</p> <p>Engineering Task Engineering Task</p>	<p>Number</p> <p>107 107</p>
<p>NODE: DESI/E168</p>		<p>TITLE: GLOSSARY: TASK INSTRUCTION</p>		<p>NUMBER:</p>

USED AT	AUTHOR PROJECT	DATE REV	DATE	CONTEXT
<div style="display: flex; justify-content: space-between;"> <div> <p>NOTES 1 2 3 4 5 6 7 8 9 10</p> </div> <div> <p>MARKING DRAFT RECOMMENDED PUBLICATION</p> </div> </div>				
<p>30 REL. PKG.</p>	<p>1 DWG</p>	<p>15 SPEC</p>	<p>37 P/L</p>	<p>82 RSW</p>
<p>31 DWG SHT</p>	<p>134 SPEC PG</p>	<p>3 EO</p>	<p>84 C/L</p>	<p>43 AMN</p>
<p>RELEASE PKG. ITEM 169</p>				

NODE: P3/E169
 TITLE: Attribute Class Diagram:
 RELEASE PACKAGE ITEM
 NUMBER:

<p>ENTITY CLASS DEFINITION: The chronological order and sequence of each of the items associated with the particular release package. Thus, the item number serves as the identification for the specific item within the package.</p> <p>KEY CLASSES: Rel. Pkg. No., Rel. Pkg. Item No.</p> <p>OWNED ATTRIBUTE CLASSES:</p> <p>NAME: Release Package Item No. NAME: Employee No. NAME: Description DEFINITION: NAME: Status NAME: Notes NAME: Approval Date DEFINITION:</p>				
Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name
Rel. Pkg. No.	Release Package	30	Release Package	30 has
<p>NODE: DESI/E169</p>		<p>TITLE: GLOSSARY: RELEASE PACKAGE ITEM</p>		<p>NUMBER:</p>



ENTITY CLASS DEFINITION: The chronological order and sequence of each of the items associated with the specific configuration list. Thus, the item number serves as the identification for a particular item within the list.			
KEY CLASSES: <u>Config. List No.</u> <u>Config. List Item No.</u>			
OWNED ATTRIBUTE CLASSES:			
NAME: Config. List Item No.		NAME: Task Instr. No.	
DEFINITION:		NAME: Employee No.	
NAME: Model/End Item No.		DEFINITION:	

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path		
			Inherited From: Entity Class Name	Number	Inherited Through: Relation Class Name
Config. List No. Part No.	Configuration List Part	84 13	Configuration List Part	84 13	has is used as

MODE 14 51/170	TITLE 14 51/170	NUMBER:
-----------------------	------------------------	----------------

AD-A142 447

INTEGRATED COMPUTER-AIDED MANUFACTURING (ICAM)

3/3

ARCHITECTURE PART 3 VOLUME (U) SOFTECH INC WALTHAM MA

C MARTIN ET AL SEP 83 1080-33 AFWAL-TR-82-4063-VOL-4

UNCLASSIFIED

F33615-80-C-5109

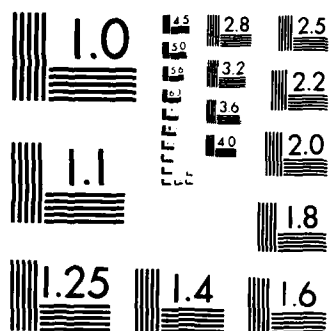
F/G 9/2

NL

END

FALMED

DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

ST252

USED AT	AUTHOR: PROJECT:	DATE: REV:	READER	DATE	CONTEXT
NOTES: 1 2 3 4 5 6 7 8 9 10		WORKING DRAFT RECOMMENDED PUBLICATION			

```

classDiagram
    class EngRelSourceID["Eng. Rel. Source ID"]
    class EngRelSource["ENG. REL. SOURCE"]
    class EngRelAssignT["ENG. REL. ASSIGN'T"]
    EngRelSourceID --> EngRelSource : serves as
    EngRelSource --> EngRelAssignT : creates
    
```

The diagram illustrates the relationships between three classes: **Eng. Rel. Source ID** (containing attribute Eng. Rel. Source ID), **ENG. REL. SOURCE** (containing attribute 171), and **ENG. REL. ASSIGN'T** (containing attribute 130). The relationship between **Eng. Rel. Source ID** and **ENG. REL. SOURCE** is labeled "serves as". The relationship between **ENG. REL. SOURCE** and **ENG. REL. ASSIGN'T** is labeled "creates".

NODE: P3/E171	TITLE: Attribute Class Diagram: ENGINEERING RELEASE SOURCE	NUMBER:
---------------	---	---------

ENTITY CLASS DEFINITION: The occurrence of the effort of creating an Engineering Release in conjunction with the Engineering Assignment, through which an Employee originates the information according to the task and procedure at hand.			
KEY CLASSES: <u>Eng. Rel. Source ID</u>			
OWNED ATTRIBUTE CLASSES:			
NAME: Eng. Rel. Source ID		NAME: Task Desc.	
DEFINITION: The combination of the employee number and the task instruction number to serve as a control for and indication of the creation of an engineering release.		NAME: Status	
		NAME: Notes	

Inherited Attribute Class(es)	Attribute Class Owned By: Entity Class Name	Number	Attribute Migration Path	
			Inherited From: Entity Class Name	Inherited Through: Relation Class Name:
Employee No. Task No.	Employee Engineering Task	108 107	Engineering Assignment Engineering Assignment	serves as serves as

MODE: DE51/E171 (G1)	TITLE: GLOSSARY: ENGINEERING RELEASE SOURCE	NUMBER:
-----------------------------	--	----------------

SECTION 3
ARCHITECTURE PART III - Final Report
DOCUMENT REQUEST ORDER FORM

SUBMIT DOCUMENT REQUESTS TO: AFWAL/MLTC
ICAM Program Library
Wright-Patterson AFB OH 45433

VOLUME NUMBER AND MANAGEMENT NUMBER	TITLE OF DOCUMENT	CHECK (✓)
AFWAL-TR-82-4063 VOLUME I - Architecture Part III Accomplishments		()
AFWAL-TR-82-4063 VOLUME II - Procedures		()
AFWAL-TR-82-4063 VOLUME III - Composite Function Model of "Design Product" (DESO)		()
AFWAL-TR-82-4063 VOLUME IV - Composite Information Model of "Design Product" (DESI)		()
AFWAL-TR-82-4063 VOLUME V - Composite Function Model of "Manufacture Product" (MFGO)		()
AFWAL-TR-82-4063 VOLUME VI - Composite Information Model of "Manufacture Product" (MFGI)		()
AFWAL-TR-82-4063 VOLUME VII - MFG01 Glossary		()
AFWAL-TR-82-4063 VOLUME VIII - Technology Transfer		()

PLEASE PRINT

NAME:

MAIL CODE:

TITLE:

PHONE NUMBER:

DEPARTMENT:

COMPANY:

STREET OR P.O. BOX:

CITY:

STATE:

ZIP:

REQUIREMENT FOR DOCUMENT

Document(s) requested for the purpose of (intended use and program/project application must be provided):

END

FILMED

5-85

DTIC